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GEO. C. MARSHALL SPACE FLIGHT CENTER MARSHALL SPACE FLIGHT CENTER, AL 35812

> NASA TECHNICAL COR FELMINIO VILLELLA EC 43/BLDG 4487

BY JERRY L. BARTON

MOTOROLA INC. SEMICONDUCTOR PRODUCTS DIVISION 5005 EAST McDOWELL ROAD PHOENIX, ARIZONA 85008

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#### FINAL REPORT

#### TRANSISTOR SCREENING EVALUATION SJ6708H CONTRACT NAS8-32087 JULY 1976 — NOVEMBER 1978

PREPARED FOR

GEO. C. MARSHALL SPACE FLIGHT CENTER MARSHALL SPACE FLIGHT CENTER, AL 35812

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#### SECTION A. NARRATIVE OUTLINE

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- I. SCOPE OF WORK
- II. DEVICE DESCRIPTION
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#### Scope of Work

Motorola contracted to screen 125 transistors capable of withstanding the high level inductive voltages obtained when switching inductive loads. The transistors were to be similar in performance to those delivered to Rockwell International for application in the SSME Spark Igniter System, i.e. Rockwell Specification RES1075.

Planned differences included a change in die bonding to comply with NASA's desire for hard solder die attachment which further necessitated a change in package to conform to the required die mounting system. Evaluation of the electrical performance and recommended changes were to be made during the preliminary build phase of the program.

#### Device Description

Die: NPN, double diffused-epitaxial collector; glassivated mesa, 190 x 190 mils.

Package: TO-8, steel, molybdenum heat spreader,

gold plated, glass feed-thru's.

Construction: Gold eutectic die attachment, 10 mil Mag-Alum wires, ultrasonic

bonding on die, tweezer weld on posts.

#### Test Plan and Results

The Special Device Specification 48ARB64845A (SJ6708H) was written to provide internal Motorola control of processing and screening of devices in accordance with the NASA contract. A copy of this specification is included in Section C.

The sequence of testing and test result summary is contained in the Customer Data Summary Sheet in Section B. The documentation of data readouts is indexed and grouped in Section F.

Test equipment used in the testing and screening of these devices is listed in the Test Facility List of Section E.

The first problem encountered was an instability of the die after 100% high temperature reverse bias when 56 of 160 devices failed the electrical inspection (reference R.O. #10). The remaining 104 devices went to 100% Burn-In (49 devices were designated Group B-6 samples and 168 hr. endpoints were recorded on a separate tab run, i.e. R.O. #55). Nine devices failed after 168 hrs., eight in the standard 100% group and one in the B-6 group, but the remaining devices were stable thru the 2000 hr. B-6 test.

The second problem encountered was hermeticity failures (22 pcs) in the B-1 test sample. This sample had been submitted to Thermal Shock (Glass Strain) test and Terminal Strength test prior to the hermeticity test. These prior tests apparently damaged the glass to metal seals as indicated in the Failure Analysis Report PL-099 \*034 contained in Section D. In order to determine the specific test causing the glass seal damage, a separate sample was run through B-1 again with a hermeticity check made after each mechanical test (see Pg. 10 Special Test in Customer Data Summary). The mechanical stress of the Terminal Strength test was determined to be the primary cause of seal failure.

A computer readout problem became evident in the final measurements of Group B testing. A number of devices showed low or no readings at all on BVCES, while the other measured parameters had normal values. An analysis of the Lorlin equipment showed a tendency for oscillations with these devices during the high voltage test resulting in low readings or no printout. All the BVCES failures were retested and observed on a curve tracer. Other than the tendency to oscillate at breakdown, the devices checked normal and within specification limits.

In Group B, subgroup VI, one device (S/N 21) showed no beta reading at 1500 hrs. The device beta measured 19.98 on verification test, a change of -5.6% from the initial reading. The device was sent to Failure Analysis for review. No evidence of a failure mechanism was found but the device was delidded and chemically etched during the analysis so it could not be returned for the last 500 hours of test. Since no problem was found in the device, we did not list it as a failure. There were sufficient spare devices in the test to maintain the correct sample size.

#### Conclusions:

Two major problems developed during the screening of the contract devices, (1) die instability, as evidenced by the high-temperature reverse-bias failures and (2) poor glass to metal seals in the mechanical package, as evidenced by the inability to pass the specified terminal strength test.

The mechanical package problems in screening surfaced again in subgroup I of qualification (Group B) testing. Oscillation problems at the computer caused a significant numere of "bad" endpoint readings in other Group B subgroups but retest and failure analysis indicates there were no subgroup failures.

The instability problem is a serious but not uncommon problem on high voltage devices. Significant improvements in lot to lot stability were achieved by the addition of glassivation to the exposed mesa junctions. This type glassivation was used on these contract devices to try to achieve maximum stability but as demonstrated in this effort, mesa glassivation alone is not always successful. Since the inception of this contract, considerable work has been in process on this problem due to similar failures on standard production lots. Our studies indicate that additional glassivation protection is needed over the basically planar emitter base junction. This technique has recently been incorporated into production with a marked improvement in the probability of die lot stability.

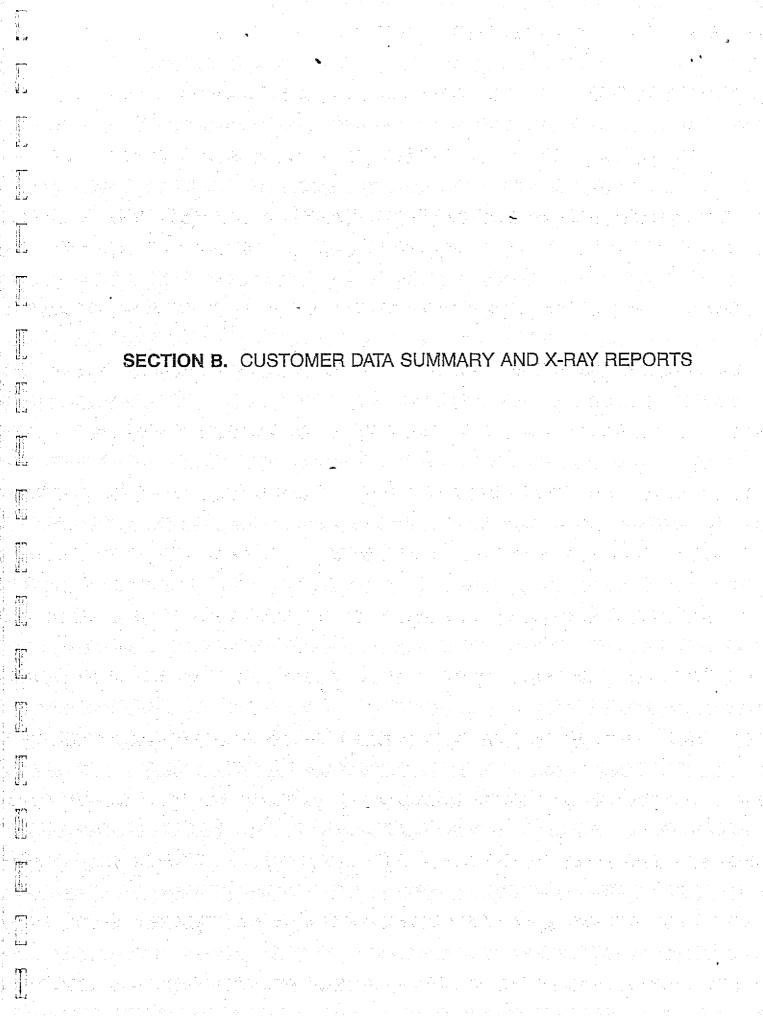
Another significant cause of instability in high-voltage die is the temperature effect on silicon resistivity. A number of theoretical and experimental studies have been published showing that resistivity peaks at a critical temperature for each doping concentration. Operation in the temperature region above the maximum resistivity can result in a run away condition. The maximum resistivity temperature for 50 ohm-cm material is about 160°C. The critical temperature decreases with increasing resistivity. The material used on this contract had resistivity in the range of 40 to 80 ohm-cm and the HTRB test temperature was run at 150°C. We believe that the high failure rate in HTRB can be, at least partially, attributed to the higher resistivity devices operating over their critical temperature.

The glass to metal seal problem is a vendor problem normally resolved by qualifying packages and vendors through Motorola's Manufacturing Engineering Department prior to a production commitment. At the time of this contract, Motorola did not have any production requirement for TO-8 hard-solder packages and therefore had no qualified vendors for such a package. The package used on this contract was obtained from the only available source of production TO-8 packages at that time. A full package qualification was not included or contemplated as part of this effort.

#### Recommendations:

As a result of this activity, Motorola recommends some changes in this device for future applications. The same mask and basic process design should be used but with lower resistivity material (25 to 40 ohm-cm) and the added protection of base/emitter passivation. This revised configuration has been submitted to extensive HTRB evaluation with good parametric stability results. Motorola is planning to use this revised die configuration to qualify the 2N6308 under MIL-S-19500/498. A major computer manufacturer is presently qualifying this die for their product line, and it is presently being used for a new procurement of the Rockwell International RES1075.

Motorola also recommends that future applications of this device be procurred in a steel TO-3 package instead of the TO-8 package. If mounting space is a serious consideration, a steel TO-66 package would be our next recommendation. production requirement for the TO-8 package would require an extensive qualification of packages and suppliers. TO-8 package is not used extensively for silicon devices. The TO-3 package is the most widely used package in the transistor industry. It is continually tested for reliability through JAN products, high reliability specials and user reliability programs. This is also true of the TO-66 but to a less degree because it is used in smaller quantities. The computer and MIL product will be built in the TO-3 package. Due to prior design commitments, the Rockwell device is being made in a TO-8 package but a new package source was located for this build.



P.O. BOX 20906, PHOENIX, ARIZONA 85098

TEST SJ6708H		MPLE	PLAN	AC	CEPTAN	CE DATA		REMARKS
P/N RES1075-01(1) Rev.A PL99.784 LA-1	SIZE	AQL LTPD	LEVEL	REJECTS FOUND	TYPE	ACCEP.	REJECT NO.	
LOT SIZE: 168 DATE CODE: 7733								
RELEASED: 7/18/78		a e	7 .				1 TO .	7.64
NOTE: Three (3) device NOTE: 151 devices plus follows:	,							
Internal Visual Insp. MIL-STD-750 Meth. 2072			100%					Done in Producti
Electrical Inspection	165		100%	7 6	BVCES #17,43, hFE3 #1	74,81,120	,145	Recorded R.O.#05
NOTE: Only five (5) re 81, & 145. S/N'	jects p s: 15 &	ulled 120 p	at this ulled a	time from fter Roado	Readou out #10.	t #05, s/	N's: 17,	43,74,
Thermal Shock Temp. Cycling) GL-STD-202 Seth. 107	160		100%	<u>o</u>				
Cond. C except 10 cycle (extreme>15min.)	s						w.	(A) 14 # 1.5 (
Constant Acceleration IIL-STD-750 Meth. 2006	160		100%	<u>o</u>				
0,000G's 'I Orientation only								
igh Temp. Rev. Bias IL-STD-750 eth. 1039	160		100%	<u>o</u>				
Cond. A VCB=640V 'A=150°C, t=48 <u>+</u> 4 hrs.		v e						
lectrical Inspection	160		100%	56 24 21	ICES1			Recorded R.O.#10 Go No Go
				2 2 2 5	hFE3 hFE3% #15 & L ES/B	20 pulled	at this	time. Go No Go



P.O. BOX 20906, PHOENIX, ARIZONA 85095

TEST SJ6708H	SA	MPLE	PLAN	AC	CEPTAN	CE DATA		REMARKS
PL99.784 LA-1 Page 2	SIZE	AQL LTPD	LEVEL	REJECTS FOUND	TYPE	ACCEP. NO.	REJECT NO.	
		[						
NOTE: 49 devices pulle	i for G	roup E	6 and	processed	concurr	ently wit	h Burn-I	1.
Burn-In	55	] .	100%	_				
rJ=187.5 <u>+</u> 12.5°C			100%	<u>0</u>				
t≥168 hrs.								
VCE≥20V adjust IC to maintain	*: '							
specified TJ								
Post Burn-In	55		100%	8				Recorded
Electrical Insp.					hFE3% /			R.O.#15
				1 1	ICES1 #			
	And the second			5		#154,155	,156,163	. & 165
NOTE: X-Ray processed	in two	groups	with a	total of	47 đevi	ces.		
X-Ray	42		100%	<u>2</u>	EM			Control
MIL-SID-750				. –	<i>\$</i> 77,104			#5410
Meth. 2076								
X-Ray	5		100%	<u>o</u>				Control
MIL-SID-750 Meth. 2076						*		<i>#</i> 5966
Hermetic Seal	45		100%	0				
MIL-STD-750	45		100%	<u>9</u>				
Meth. 1071				_				
Fine Leak Condition <b>G</b> or H				9	radifld	, 85,116,13	5 137 13	3 130 146
leak rate≼lX10-8ATm cc/s	sec.				# 7 O, O.C.	05,110,15	,,,,,,,	J, 13 J, 14 C
Gross Leak	15			0				
Condition A,C,D,E, or (F)							11, 11, 1	
	36		100%	<u>o</u>				
MIL-STD-750 Meth. 2071								
								•
NOTE: One (1) device lo Only 5 devices p						pulled i	or B-5 s	imple.
			Touh W	79 TOLIOM:	•			
GROUP A								
Subgroup I	5		100%	<u>o</u>				
isual & Mechanical					and a fluid			
			t t				í	

P.O. BOX 20006, PHOENIX, ARIZONA 85036

TEST SJ6708H	SA	MPLE P	PLAN	AC	CEPTAN	CE DATA		REMARKS
PL99.784 LA-1 Page 3	SIZE	AQL LTPD	LEVEL	REJECTS FOUND	TYPE	ACCEP. NO.	REJECT NO.	; 
Subgroup II Electrical Insp.	5		100%	<u>1</u>	ICEO #166			Go No Go
Subgroup III Electrical Insp.	4		100%	<u>o</u>				Go No Go
Subgroup IV Electrical Insp.	4		100%	<u>o</u>				Go No Go
Subgroup V Electrical Insp.	4		100%	<u>o</u>				Go No Go
GROUP B						·		. •
Initial Electrical	76			<u>5</u>	BVCES #5,27,3	1,36,41		Recorded R.O.#20
	20 tot +2 spar			22		0	1	
MTL-STD-750 Meth. 2066	5			<u>5</u>		0	1	·
Solderability MIL-SID-750	2			<u>o</u>		0	1	
Meth. 2026 use of mildly activated flux is allowable			in some					
(Superior 30 or equival	ent)							
Resistance to Solvents MIL-STD-202	2			<u>1</u>		0	1	. "
Meth. 215						1.1	i i	i.
Thermal Shock (Temp. Cycling) MIL-STD-202	20+2 spares			<u>o</u> .		0	1	
Meth. 107 Gond. C except 10 cycle	s							
t(extremes)=15min.								
Thermal Shock (Glass Strain) MIL-STD-750	20+2 spares			<u>o</u>		0	1	
Meth. 1056 Condition B	A Green							

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TEST SJ6708H	SA	MPLE I	PLAN	AC	CEPTAN	CE DATA		REMARKS
PL99.784 LA-1 Page 4	SIZE	AQL LTPD	LEVEL	REJECTS FOUND	TYPE	ACCEP. NO.	REJECT NO.	
Subgroup I (Continued)								
Terminal Strength (Tension)	20+2 spares			<u>o</u>		0	1 .	
MIL-SID-750 Meth. 2036 Cond. A								
WT=10 lbs., t=15 sec.	1. A. A.			· · · <u>·</u>				
Hermetic Seal MIL-SID-750 Meth. 1071	20+2 spares			<u>22</u>		. 0	1	
Fine Leak Condition G				22	radiflo			
Leak Rate_1X10-8ATm cc/ Gross Leak Cond. A,B,C,D, or F	sec.			not teste	<u>d</u>			
Moisture Resistance MIL-STD-750 Meth. 1021				not teste	<u>đ</u>			
omit initial conditioni	ng							
End Points				not teste	<u>ia</u>			
1/ Used 5 units from B-	b % 1/	units	erom B-	•			]	
Subgroup II <u>2/</u> Salt Atmosphere (Corrosion)	20		1 V.	<u>o</u>	·	0	1	No Elect. End Point
MIL-STD-750								
Meth. 1041  2/ Used electrical reje	cts.							
Subgroup III <u>3</u> / Shock(Non-Oper.) MIL-STD-750 Meth. 2016	20			00		0	1	Recorded
1,500G's t=0.5mSec.								
5 blows each in X1,Y1, Y2, & Z1 direction (20 blows total)								
		:						



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TEST SJ6708H	SA	MPLE	PLAN	AC	CEPTAN	CE DATA		REMARKS
PL99.784 LA-1 Page 5	SIZE	AQL LTPD	LEVEL	REJECTS FOUND	TYPE	ACCEP. NO.	REJECT NO.	e General de la companya de la compa
Subgroup III (Continued								·
Vib. Var. Frequency		. ::::: 1		<u>o</u>				
MTL-STD-750 Meth. 2056								1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Vibrational environment For 7.8 hrs. in each of							5	
X1, Y1, Z1 axis	14. 14. 14. 14. 14.				**			
Constant Acceleration MIL-STD-750				<u>o</u>				
Meth. 2006 20,000G's								
XI, YI, Y2, & Z1 Directions								
Accoustic				_	*			
MIL-SID-810 Meth. 515.2				<u>0</u>				
Field Accoustic				į.				
environment at 174 db.								#0.0
End Points				<u>o</u>				R.O.#30
NOTE: Two (2) devices 2 more units.	lamaged	on Sh	ock Tes	:, R.O.#30	(90 &	106), and	replaced	with
3/ Used same units for	Subgrou	ps III	& IV.		. ***:			
Subgroup IV	20			<u>o</u>		c	1	Recorded
Safe Operating Area (Switching)			**************************************					
MIL-SD-750 Meth. 3053								
Cond. C (unclamped Inductive load)								
ls=0.1, tr=tf_500ηSec. C_10%, TA=25°C								
est #1				<u>o</u>				
vary to obtain IC)							in gari	
BB1=10,,VBB1=16V BB2=00,VBB2=0								
CC=25V, IC=7.0A =5mH (Super Electric					He in			
orp. Type S16884 in arallel or equivalent	v.	p yield						
OC resistance (0.1 <sub>n</sub> )								



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TEST SJ6708H	SA	MPLE	PLAN	AC	CEPTAN	CE DATA		REMARK
PL99.784 LA-1 Page 6	SIZE	AQL LTPD	LEVEL	REJECTS FOUND	TYPE	ACCEP. NO.	REJECT NO.	
Subgroup IV (Continued)								
Cest #2			.*	<u>o</u>				
tp <sub>c:</sub> 5mSec. (vary to obtain IC)								
RBB1=100 <sub>n</sub> , VBB2=10V RBB2=00, VBB2=0					·			
VCC=25V, IC=0.5A L=100mH (Two Triad C48U							•	
in series; 80mH winding 20mH winding or equival DC resistance_1.0_)							y	
and Points				<u>o</u>				R.O.#35
Mariana W 1.1	20+3					1	2	Recorded
Subgroup V <u>4</u> / High Temp. Life (Non-Oper.)	spares			<u>1</u>		L	4	Vecorae
MTL-STD-750 Meth. 1031								
rA=200°C, t=1000 hrs. T	otal							
High Temp. Life D- 340 hrs. t=340 hrs.	20+3 spares			<u>0</u>				
Electrical Inspection (340 hrs.)	20+3 spares				BVCES #79			R.O.#40
High Temp. Life 340 - 670 hrs. t=330 hrs.	29+2 spares			<u>o</u>				
Electrical Inspection (670 hrs.)	20+2 spares			<u>o</u>				R.O.#45
High Temp. Life 170 - 1000 hrs. 1=330 hrs.	20+2 spares			<u>o</u>				
Electrical Inspection (1000 hrs.)	20+2 spares			<u>o</u>		d Tarakaya		R.O.#50
4/ Used units from B-3	plus sp	ares.						
						1		



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## CUSTOMER DATA SUMMARY SHEET

TEST SJ6708H	SA	MPLE	PLAN	AC	CEPTAN	CE DATA		REMARKS
PL99.784 LA-1 Page 7	SIZE	AQL LTPD	LEVEL	REJECTS FOUND	TYPE	ACCEP. NO.	REJECT NO.	
Subgroup VI Steady State	40+4 spare:			<u>5</u>		ı	2	Recorded
Dperation Life 41L-STD-750				: * · · · · · · · · · · · · · · · · · ·	. "			
4eth. 1026 7CE>20V								
IJ=187.5 <u>+</u> 12.5°C Idjust IC to maintain	4		:"					
specified TJ =2000 hrs. total								
Steady State Operating Life	40+4 spares	÷.		<u>o</u>				
- 168 hrs. =168 hrs.								
Hectrical Inspection 168 Hrs.)	40 <del>14</del> spares				ICES1 #61			R.O.#55
Steady State Operating Life .68 - 340 hrs.	40+3 spares			<u>o</u>				
=172 hrs. Hectrical Inspection 340 hrs.)	40+3 spares			<u>0</u>				R.O.#60
Steady State perating Life 40 - 670 hrs.	40+3 spares			<u>o</u>				
lectrical Inspection 670 hrs.)	40+3 spares			<u>o</u>				R.O.#65
teady State perating Life 70 - 1000 hrs.	40+3 spares			<u>0</u>				
=330 hrs. Dectrical Inspection 1000 hrs.)	40+3 spares			<u>o</u>				R.O.#70
teady State perating Life 000 - 1500 hrs. =500 hrs.	40+3 spares			<u>o</u>				

SPD 1053 R-1 (9/68)

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TEST SJ6708H	SA	MPLE	PLAN	AC	CEPTAN	CE DATA	<u> </u>	REMARK
PL99.784 LA-1 Page 8	SIZE	AQL LTPD	LEVEL	REJECTS FOUND	TYPE	ACCEP. NO.	REJECT NO.	
 Subgroup VI (Continued)					· 1			
Electrical Inspection (1500 hrs.)	40+3 spares			<u>o</u> .	hFE3 #21*			R.O.#75
Steady State Operating Life L500 - 2000 hrs.	40+2 spares			<u>o</u>	damaged #13**			
=500 hrs.								
See attached failure	analysi	s repo	rt #PLO	99 & 32.				
** See attached failure	analys	is rep	ort #27	8.				
Electrical Inspection (2000 hrs.)	40+1 spares			<u>0</u> <u>8</u> /	#69(spa	re)		R.O.#80
Subgroup VTI <u>5</u> / Power Cycle JCE=100V	15+2 spares			<u>0</u> <u>8</u> /		0	I	Recorde
PA=25 <u>+</u> 3°C adjust PD to obtain								
EC=100°C or ATC=75°C con=toff=5min.								
Electrical Inspection (1000 cycles)	15+2 spares			0 8/				R.O.#81
Power Cycle 1000 - 2000 cycles	15+1 spare			<u>o</u>				
Electrical Inspection (2000 cycles)	15+1 spare			<u>0</u>				R.O.#82
Power Cycle 2000 - 3000 cycles	15+1 spare			<u>o</u>				
Electrical Inspection (3000 cycles)	15+1 spare			<u>o</u>	1/ 12.1.1 x			R.O.#83
Power Cycle 3000 - 4000 cycles	15+1 spare			<u>o</u>				
Electrical Inspection (4000 cycles)	15+1 spare			0 8/				R.O.#84



P.O. BOX 20905, PHOENIX, ARIZONA 85036

TEST SJ6708H	SA	MPLE	PLAN	AC	CEPTAN	CE DATA	<u> </u>	REMARK
PL99.784 LA-1 Page 9	SIZE	AQL LTPD	LEVEL	REJECTS FOUND	TYPE	ACCEP. NO.	REJECT NO.	
Subgroup VII (Continued)								
hermal Shock <u>6</u> / Temp. Cycling) IIL-STD-202 Leth. 107	15+2 spares			<u>o</u>		0	1	Recorde
! (low)=-65°C ! (high)=125°C 00 cycles								11 (11) 5.43 (11)
Thermal Shock Temp. Cycling) 5 cycles	15+2 spares			<u>o</u>				
lectrical Inspection (25 cycles)	15+2 spares			<u>o</u>		: (-		R.O.#85
Chermal Shock (Temp. Cycling) 75 cycles	15+2 spares			<u>o</u>				
Lactrical Inspection (75 cycles)	15+2 spares			<u>o</u>				R.O.#86
Chermal Shock Temp. Cycling) .75 cycles	15+2 spares			<u>o</u>				
Electrical Inspection (175 cycles)	15+2 spares			<u>o</u>				R.O.#87
Chermal Shock Temp. Cycling) 00 cycles	15+2 spares			<u>o</u>				
lectrical Inspection (300 cycles)	15+2 spares			<u>o</u>				R.O.#88
Thermal Shock (Temp. Cycling) 000 cycles	15+2 spares			<u>o</u>				
Lectrical Inspection 500 cycles)	15+2 spares			<u>o</u> .				R.O.#89
	•							

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TEST SJ6708H	SA	MPLE	PLAN	AC	CEPTAN	CE DATA	<u> </u>	REMARK
L99.784 LA-1 age 10	SIZE	AQL LTPD	LEVEL.	REJECTS FOUND	TYPE	ACCEP. NO.	REJECT NO.	
ubgroup VII (Continued								
ibration, Variable <u>7</u> / requency Test	15 <del>1</del> 2 spares			<u>o</u> 11 see 1		0	1	
Monitored) #71-123 IL-STD-750	upar ao							sign to the second
eth. 2057 CES=400V								
20G's or 0.1 inch A as applicable								
ine wave 5 to 2000Hz								
eturn to 5Hz in 7.5 mi 1, Yl, Zl orientation	<b>1.</b>							
nd Points	15+2			<u>0</u>				R.O.#90
	spares							
/ Used 17 good units	for Pow	er Cyc	le Test					
/ Used 17 good units	for The	rmal S	nock Te	st.				
/ Used 17 units from	'	1.	ł .		} `			
/ Data on these R.O. OTE: 20 devices were						1	isted of	g good
units: S/N 132, Variable Frequen	133,142	,147,1	48,157,	58,159,16	4 plus	11 B-7 un	its from	
pecial Test								
ermetic Seal IL-STD-750	20		100%	<u>3</u>				
eth. 1071 Fine Leak				3	<i>#</i> 71,132	,164		
ondition G eak Rate_1X10-8ATm cc/ Gross Leak	sec.			0				
ondition F				is United States of the Control of t				
nermal Shock Temp. Cycling)	17		100%	<u>o</u>				
IL-STD-202 eth. 107								
ond. C except 10 cycle (extremes)=15 minutes	5							

P.O. BOX 20906, PHOENIX, ARIZONA 85036

TEST SJ6708H	SA	MPLE	PLAN	AC	CEPTAN	CE DATA		REMARK
PL99.784 LA-1 Page 11	SIZE	AQL LTPD	LEVEL	REJECTS FOUND	TYPE	ACCEP. NO.	REJECT NO.	
Hermetic Seal MTL-STD-750	17		100%	<u>2</u>				
Meth. 1071 Fine Leak Condition G				2	#105 <b>,</b> 13	<b>3</b>		
Leak Rate_1X10-8ATm cc/ Gross Leak	sec.			0				
Condition F Thermal Shock	1.5		100%	<u>o</u>				
(Glass Strain) MiL-STD-750								
Meth. 1056 Condition B								
Hermetic Seal MTL-STD-750 Meth. 1071	15		100%	<u>o</u>				
Fine Leak Condition G Leak Rate/IX10-8ATm cc/								
Gross Leak Condition F	.ec.				ties (			
Terminal Strength (Tension)	1.5		100%	<u>o</u>				
MIL-SID-750 Meth. 2036 Condition A								
WT=10 lbs., t=15 seconds	'					<u>-</u>		
Hermetic Seal MIL-STD-750 Meth. 1071	15		100%	<u>14</u>				
Fine Leak Condition C Leak Rate_IXIO-8ATm cc/	1 <b>9</b> C			14 ***	#72,73, 148,15	75,86,98, 4,157,159	108,123,1 ,224	42,147
Gross Leak Condition F				0				
*** See attached failur	e analy	sis re	port #2	43.				
	. 116, 5 1							



## RADIOGRAPHIC CERTIFICATE OF COMPLIANCE

DATE 17 APRIL 1978

CUSTOMER				MOTOROLA F.O. NO. N/A MOTOROLA PT. NO. S≅6708H
NASA			The state of the state of the	QUANTITY X-RAYED 5 LOT 001
				, METHOD 2076.
		<u> </u>	<u> </u>	
DEFECT NUMBER REJECTED		QUANTITY Rejected	% OF TOTAL	TOTAL ACCEPTED:5
				TOTAL REJECTED:
				% REJECTED:
			i i i i i i i i i i i i i i i i i i i	NATE.
				HOTE:
				SEE ATTACHED CORRELATION SHEET FOR NUMBERING OF UNITS.
			<del> </del>	
			14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		<u> </u>		eng Marawari, Pandipalingga salama
	1.6			
		<u></u> -		
			‡.	Ollanda
				INTERPRETER: Aug ( Chromas)
				Louis M. Ahrens.
				APPROVAL: James Bolling
				Loins H. Ahrens. 039
CDD 424 D 7 17/701			<u> </u>	DATE: 13-APRIL 1978

#### X-RAY SERIAL # TO UNIT SERIAL # CROSS REFERENCE LIST

		•	
DEVICE	CHARGE NO.	LOT NO. JOB NO.	CUSTOMER
1			
SJ6708H		001	NASA

X-RAY	DEVICE	X-RAY	DEVICE	X-RAY	DEVICE	X-RAY	DEVICE
1	157	31	a ar	61		91	
2	158	32		62		92	
3	159	33	Harris I	63		93	
4	164	34		64		94	
5	166	35		65		95	
6		35		66		96	
7		37		67		97	_
8		38		68		98	
9		39		69		99	
10		40		70		100	
- 41		41		71		101	
12		42		72		102	
13		43		73		103	
14		44		74		104	
15		45		75		105	
16		46		76		106	
17		47	<u> </u>	77		107	
18		48		78		108	
19		49		79		109	
20		50		80		110	
21		51		81		111	
22		52		82		112	
23		53		83		113	
24		54		84		114	
25		55		85		115	1, 17 1
26		56		86		116	
27		57		87		117	
28		58		88		118	
29		59		89		119	
30		60		90		120	



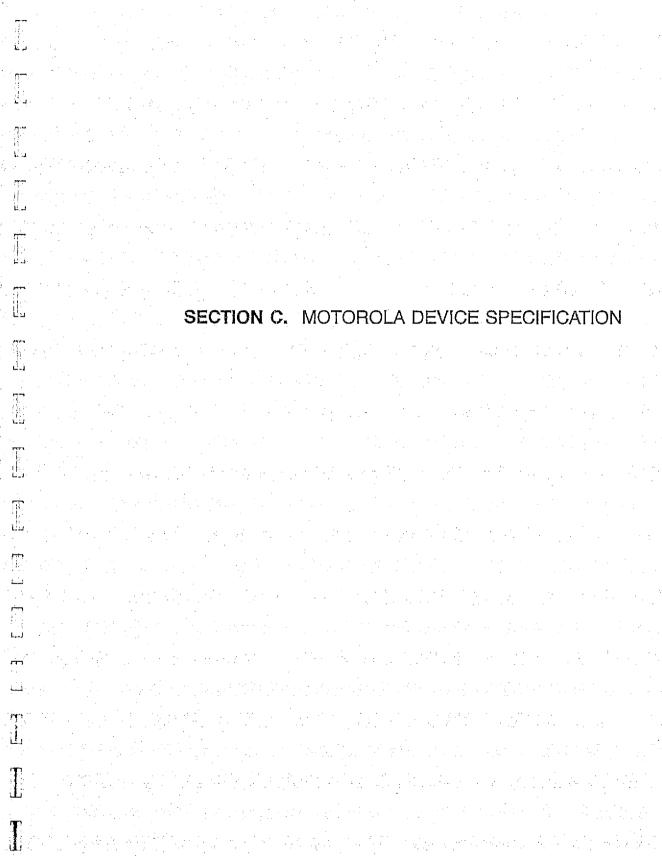
## RADIOGRAPHIC CERTIFICATE OF COMPLIANCE

CUSTOMER	CUSTO X-RAY		ES1075 5410	
DEFECT NUMBER REJECTED		QUANTITY Rejected	% OF TOTAL	TOTAL ACCEPTED: 40
EXTRANGOUS MAT. (EM)- 7, 17.				TOTAL REJECTED: 2
				% REJECTED:
				NOTE: SEE ATTACHED CORRELATION SHEET
				FOR NUMBERING OF UNITS.
				Of me lawn
				APPROVAL: Sound A huses
SPD 4364 R-1 (7/73)				Louis H. Ahrens.  DATE:26_OCT. 1977

# X-RAY SERIAL # TO UNIT SERIAL # CROSS REFERENCE LIST

		<u></u>		<u></u>			
i	DEVICE	CHARGE NO.	LOT NO.	.0א פסנ	CUSTOMER		
	ST6708H		001	5410	20000	the state of the	
	COLOR KIZZI ( )				<u> </u>		

X-RAY	DEVICE	X-RAY	DEVICE	X-RAY	DEVICE	X-RAY	DEVICE
1	70	31	/29	61		91	·
2	71_	32	130	62		92	
3	72	33	132	63		93	
4	73	34	/33	64		94	
5	75	35	135	65		95	
6	76	36	137	66		96	
7	772	37	138	67		97	
8	78	38	139	68		98	
9	79	39	142	69		99	
10	80	40	1410	70		100	
11	82	41	147	71		101	
12	85	42	148	72		102	
13	86	43		73		103	
14	90	44		74		104	
15	92	45		75		105	
16	95	46		76		106	
17	104 -	47		77		107	
18	105	48	m.	78		108	
19	106	49		79		109	n et e
20	108	50		80		110	
21	1/3	51		81		111	
22	114	52		82		112	
23	145	53		83		113	
24	1110	54		84		114	
25	117	55		85		115	
26	118	56		86		116	
27	123	57		87		117	
28	12.4	58		88		118	
29	125	59		89		119	
30	127	60		90		120	



	MOTOROLA	IN
( <b>AA</b> )	MOTOROLA Semiconductor	٠.
	Products Divis.	îan

SPECIAL DEVICE SPECIFICATION

SPD 10604 (7/74)	•		ISSUE: E	·	
DEVICE	SJ6708H		рос. йо. 48	3ARB64845A	
		· · ·	PAGE I	or 37_	_

	APPROVALS: ALL SIGNATURES ON FILE IN DOCUMENT CENTRAL
TITLE	DATE OF MARKETER MC DONNELL ISSUE SALESMAN SALES OFFICE
TRANSISTOR, SILICON POWER	
CUSTOMER 117.05	11-9-76
CUST LOCALIST CONTRACT OF THE	Δ i i i i i i i i i i i i i i i i i i i
MARSHALL SPACE FLT CENTER, ALA	A. O B O ACC'Y REVIEW W. WERKHEISTER 10-28-76
SPECIFICATIONS ISSUE DATE	
所が RES1075 * A パンーパーフキ	PL99.784
*As modified per HASA Her dated 3-31	SUGGESTED
filed with SAR ISSUE "A" this specif	re at the
OTHER	POLARITY
Request #8-1-T-EC-06242	PYG. 98A50 54984C
Exhibit A 7	X   D   Per FIGURE 1
Exhibit B	XIE
RC1075 D -	X
MIL-STD-130 Latest	<u> </u>
MIL-STD-202	CONSTRUCTION
MIL-STD-750	WT < 5 grams.
MIL-STD-810	LEAD MATERIAL
MIL-STD-1276	Type F per MIL-STD-1276
MIL-S-19491	LEAD FINISH
MIL-S-19500 Latest	X CLAU FINISH
** VIBRATIONAL ENVIRONMENT ONLY	SAME ASEXCEPT FOR:
CUST. PART NO.	
RES1075-01(1)	

DATA - SHIPPING INSTR. - GENERAL NOTES:

(See NOTES 4, 5, and 6.)

200

DEVICE

ATTENTION HI-REL SCHEDULER: This specification is intended as a Part Qualification Program and not for furnishing Production Parts to the Customer's Specification. Following completion of the Program, all Test Samples and Test Data shall be sent to the Customer. A Final Report shall be prepared, customer approved, and distrubuted per NOTE 4.3 herein.



<del></del>		ISSUE:
TITLE:		48ARB64845A
	SJ6708H	PAGE 2 OF

CUSTOMER APPROVAL DOCUMENT

THIS DOCUMENT 48ARB64845A IS SUBJECT TO REVIEW AND APPROVAL BY COGNIZANT CUSTOMER PERSONNEL.

Document	Revi	iew Date <u>·</u>	•	11.	/2	23,	175	<u>.</u>
				/		E		Title NASATECHNICAL COR
•		•			•		·	

		emiconductor Divi	sion DEVICE		J6708H		DOC.	NO.	SARB648	845A
-		RETE PROCESS FLOW					PAG	2	OF	
PROCES	SOR/EXT.	CONTROL NO.	HIGH REL. LOT NO.	SOURCE	TYPE NO.	CHARGE	NO.	CAS	E NO.	
STEP	DGS			J	PROC.	DA	TC	<u> </u>	COL	INIT
NO.	CODE	OPERATIO	ON DESCRIPTION	ing saing.	CODES	IN	<del>~</del>	VERIF.	IN	OU
0.		PRODUCTION PROC	ESSING							
0.1		100% Internal V MIL-STD-750, Me	isual Inspection thod 2072	<b>1</b> . , c. ,	C,CC,R					***
0.2		Transfer Device	es to Final Test							
· · · · · · · · · · · · · · · · · · ·										
			talan Bartan ya Afrika Majadan ya Bartan ya I					e he		
			raji daka ed Biranen							

Discr	ete Se	miconductor Div	vision	DEVICE		SJ6708H		DOC.	NO.	1006404	ΛΕΛ
	DISCRI	ETE PROCESS FLO	W			300/0011		-	40 <i>F</i>	\RB6484	‡DA
ROCESSO	R/EXT.	CONTROL NO.	HIGH REL. I	OT NO.	SOURCE	TYPE NO.	CHARG	E NO.		E NO.	
STEP	DGS	OBEDAT	ION DESCRIPT	ION:		PROC.	DA	TE		cou	JNT
NO.	CODE	OrthAi	ION DESCRIPT	ION 3		CODES	. IN .	OUT	VERIF.	IN	QU
1.		FINAL TEST PRO	CESSING							;	
1.1		Select Devices	per Source					lm 1			
1.2		Electrical Tes	t per TABLE	I		M,G,R					
1.3		Transfer Devic	es to Q. A.		•				1 - Ar		
		Supply Q. A. a electrical rej Group (B-2) te shorts wheneve	ects, if aversets. Use or possible.	ailabl pens a Pack	age						
		rejects separa as electrical testing.	rejects for	ot and Group	tag B						
P-2 P-				o) (m) (m) (m) (m) (m) (m)		14 PM NO 445 642 644 644 444 644	<u> </u>	<u> </u>	<b> </b>		<del> </del>
						•			1.4		
				*			2.52		1200		
			e Navodenos (j. 1919)				٠				
145 6 4 1											
200	:										
										1	
						Adam Andi			· · · · · · · · · · · · · · · · · · ·	- 1.1.	
						in a 19				Tariba da S	
						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Transfer	
				(*) (*)						Later to the	
0.01	TOMED	REQUIREMENT		- DESTRI		Δ/	MOTOR	OLA OP	TIONAL	REOLUR	L

10 J. 1	i		(M) MOT	OROL	A INC.	SPD 10602	2 (7/74)			ISSUE		<u> </u>			
		٠.	Discrete Semiconductor Division			SJ6708H			•	DOC.	<sup>но.</sup> 48А	48ARB64845A			
	ſ			DISCRETE PROCESS FLOW						PAGE 5 OF					
	ŧ.,	` ريا	PROCESSO	R/EXT.	CONTROL NO. HIGH	LOT NO.	SOURCE	TYPE NO.	CHARGE	NO.	CAS	E NO.			
			STEP	DGS	OPERATION DESCR	าเกรเดิม		PROC.	DA	re		COL	INT		
	73	<del>["</del>	NO.	CODE	OPERATION DESCR	TIPTION		CODES	IN	OUT	VERIF.	IN	OUT		
	15	724	2.		QUALITY ASSURANCE PROC	ESSING		•							
•			2.1		Sample Group A Inspect TABLE I (Sample Size a at Q. A. Option).		ers	M,G,R							
			2.2		100% Processing (Mark Devices)	and Serial	ize	C,S							
			2.2.1		Electrical Test per TALLimit 1	ABLE II		RR,R				*			
			2.2.2		Thermal Shock (Temp. (MIL-STD-202, Method 10 Cond. C except 10 cycle(extremes) > 15 minut	)7 les									
			2.2.3		Constant Acceleration MIL-STD-750, Method 20 10,000G's, Y1 oriental	006									
			2.2.4		High Temperature Rever MIL-STD-750, Method 10 Cond. A VCB = 640V, TA = 150 <sup>0</sup> 0 t = 48 <u>+</u> 4 hours	)39									
	1	Laj	2.2.5		Electrical Test per TA	ABLE II		RR,R							
					Limit 2										
		-T-1961								ing the second					
		L.i													
										1 					
	1									rija aks	and the				
	5			l v											
										11 L	To Multi-				
										3.7 ° (*)					
	3.	-		070					MOTOT			TO:			
ار کار از در این از در این استان		ب	CC - CE	RTIFICA	R REQUIREMENT TE OF COMPLIANCE REQ. DATA (ATTRIBUTES) REQ.	D — DESTRU G — GO — NO	CTIVE T GO	R	MOTORO REMOVE READ AI	REJEC	TS	reduik	EIVIEN I		

DISCRETE PROCESS FLOW    SUBSCRIPTION   SOURCE TYPE NO.   CASE NO.	
DISCRETE PROCESS FLOW  CONTROL NO. HIGH REL LOT NO. SOURCE TYPE NO. CHARGE NO. CASE NO.  STEP DOS CODE  OPERATION DESCRIPTION  2.2.6  Burn-IN 1/ VCE > 20V, TJ = 187.5 ± 12.5°C, 0JC = 7.0°C/W Adjust IC to maintain specified TJ t > 168 hours  2.2.7  Electrical Test per TABLE III RR,R Limit 2 (Delta Calculations shall be performed with reference to data recorded at Step 2.2.1)  2.2.8  X-Ray Inspection MIL-STD-750, Method 2076  2.2.9  Hermetic Seal MIL-STD-750, Method 1071  -2.9.1  Fine Leak Cond. G or H Leak Rate < 1 X 10 <sup>-8</sup> Atm cc/Sec.  2.9.2  Gross Leak Cond. A, C, D, E, or F  External Visual Inspection MIL-STD-750, Method 2071	Q A D
ROCESSOR/EXT. CONTROL NO. HIGH REL LOT NO. SOURCE TYPE NO. CHARGE NO. CASE NO.  STEP DGS OPERATION DESCRIPTION PROC. CODES IN OUT VERIF. IN  2.2.6 Burn-IN 1/ VCE > 20V, TJ = 187.5 ± 12.5°C, 0JC Adjust IC to maintain specified TJ t > 168 hours  2.2.7 Electrical Test per TABLE III RR,R Limit 2 (Delta Calculations shall be performed with reference to data recorded at Step 2.2.1)  2.2.8 X-Ray Inspection MIL-STD-750, Method 2076  2.2.9 Hermetic Seal MIL-STD-750, Method 1071  2.2.9.1 Fine Leak Cond. G or H Leak Rate < 1 X 10 <sup>-8</sup> Atm cc/Sec.  2.9.2 Gross Leak Cond. A, C, D, E, or F  2.10 External Visual Inspection MIL-STD-750, Method 2071	<u>040</u>
NO. CODE  OPERATION DESCRIPTION  CGDES  IN OUT VERIF. IN  2.2.6  Burn-IN 1/ VCE > 20°, TJ = 187.5 ± 12.5°C, 0JC Adjust IC to maintain specified TJ t > 168 hours  2.2.7  Electrical Test per TABLE III Limit 2 (Delta Calculations shall be performed with reference to data recorded at Step 2.2.1)  2.2.8  X-Ray Inspection MIL-STD-750, Method 2076  Hermetic Seal MIL-STD-750, Method 1071  2.9.1  Fine Leak Cond. G or H Leak Rate < 1 X 10 <sup>-8</sup> Atm cc/Sec.  R  Cond. A, C, D, E, or F  2.10  External Visual Inspection MIL-STD-750, Method 2071	
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VCE > 20V, TJ = 187.5 ± 12.5°C, eJC = 7.0°C/N Adjust IC to maintain specified TJ t ≥ 168 hours  2.2.7 Electrical Test per TABLE III RR,R Limit 2 (Delta Calculations shall be performed with reference to data recorded at Step 2.2.1)  2.2.8 X-Ray Inspection MIL-STD-750, Method 2076  Hermetic Seal MIL-STD-750, Method 1071  2.2.9.1 Fine Leak Cond. G or H Leak Rate ≤ 1 X 10 <sup>-8</sup> Atm cc/Sec.  2.9.2 Gross Leak Cond. A, C, D, E, or F  External Visual Inspection MIL-STD-750, Method 2071	
VCE > 20V, TJ = 187.5 ± 12.5°C, eJC = 7.0°C/N Adjust IC to maintain specified TJ t ≥ 168 hours  2.2.7 Electrical Test per TABLE III RR,R Limit 2 (Delta Calculations shall be performed with reference to data recorded at Step 2.2.1)  2.2.8 X-Ray Inspection MIL-STD-750, Method 2076  Hermetic Seal MIL-STD-750, Method 1071  2.2.9.1 Fine Leak Cond. G or H Leak Rate ≤ 1 X 10 <sup>-8</sup> Atm cc/Sec.  2.9.2 Gross Leak Cond. A, C, D, E, or F  External Visual Inspection MIL-STD-750, Method 2071	
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Limit 2 (Delta Calculations shall be performed with reference to data recorded at Step 2.2.1)  2.2.8  X-Ray Inspection MIL-STD-750, Method 2076  Hermetic Seal MIL-STD-750, Method 1071  2.2.9.1  Fine Leak Cond. G or H Leak Rate < 1 X 10 <sup>-8</sup> Atm cc/Sec.  2.9.2  Gross Leak Cond. A, C, D, E, or F  2.10  External Visual Inspection MIL-STD-750, Method 2071  R	1
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X-Ray Inspection MIL-STD-750, Method 2076  R  Hermetic Seal MIL-STD-750, Method 1071  -2.9.1  Fine Leak Cond. G or H Leak Rate < 1 X 10 <sup>-8</sup> Atm cc/Sec.  R  Cond. A, C, D, E, or F  -2.10  External Visual Inspection MIL-STD-750, Method 2071  R	1
MIL-STD-750, Method 2076  Hermetic Seal MIL-STD-750, Method 1071  2.9.1 Fine Leak Cond. G or H Leak Rate < 1 X 10 <sup>-8</sup> Atm cc/Sec.  2.9.2 Gross Leak Cond. A, C, D, E, or F  2.10 External Visual Inspection MIL-STD-750, Method 2071	
MIL-STD-750, Method 2076  Hermetic Seal MIL-STD-750, Method 1071  2.9.1 Fine Leak Cond. G or H Leak Rate < 1 X 10 <sup>-8</sup> Atm cc/Sec.  2.9.2 Gross Leak Cond. A, C, D, E, or F  2.10 External Visual Inspection MIL-STD-750, Method 2071	1
MIL-STD-750, Method 1071  Fine Leak Cond. G or H Leak Rate < 1 X 10 <sup>-8</sup> Atm cc/Sec.  Cond. A, C, D, E, or F  External Visual Inspection MIL-STD-750, Method 2071  MIL-STD-750, Method 2071	
MIL-STD-750, Method 1071  Fine Leak Cond. G or H Leak Rate < 1 X 10 <sup>-8</sup> Atm cc/Sec.  Cond. A, C, D, E, or F  External Visual Inspection MIL-STD-750, Method 2071  MIL-STD-750, Method 2071	
Fine Leak Cond. G or H Leak Rate < 1 X 10 <sup>-8</sup> Atm cc/Sec.  Gross Leak Cond. A, C, D, E, or F  External Visual Inspection MIL-STD-750, Method 2071  R  R  R	
Cond. G or H Leak Rate < 1 X 10 <sup>-8</sup> Atm cc/Sec.  2.9.2 Gross Leak Cond. A, C, D, E, or F  External Visual Inspection MIL-STD-750, Method 2071	
Leak Rate < 1 X 10 <sup>-8</sup> Atm cc/Sec.  2.9.2 Gross Leak Cond. A, C, D, E, or F  External Visual Inspection MIL-STD-750, Method 2071  R	
.2.9.2 Gross Leak Cond. A, C, D, E, or F  External Visual Inspection MIL-STD-750, Method 2071	
Cond. A, C, D, E, or F  External Visual Inspection MIL-STD-750, Method 2071	
External Visual Inspection MIL-STD-750, Method 2071	
MIL-STD-750, Method 2071	
MIL-STD-750, Method 2071	
1/ Perform the 2000-br Oper	
1/ Perform the 2000-hr Oper	
1/ Perform the 2000-br Oper	
Life test (Step 2.4.6, Sub-	
group B-6) concurrently.	
Samples for B-6 do not have	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
to go through Burn-In.	] .
C - CUSTOMER REQUIREMENT D - DESTRUCTIVE TEST M - MOTOROLA OPTIONAL REQUI	ЕM
CC - CERTIFICATE OF COMPLIANCE REQ. S - SUMMARY DATA (ATTRIBUTES) REQ. G - GO - NO GO R - REMOVE REJECTS RR - READ AND RECORD	

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SPD 10603 (7/74) ISSUE: DEVICE DOC. NO. MOTOROLA INC. DISCRETE 48ARB64845A SJ6708H Semiconductor PROCESS **Products Division** FLOW PAGE PROCESSOR/EXT. CONTROL NO. HIGH REL. LOT NO. SOURCE TYPE NO. CHARGE NO. CASE NO.

Group A Inspection per TABLE I-(C,S,G,R)1/ 2.3.5 (A-5) 2.3.7 (A-7) 2.3.6 (A-6) Elect. Test 2/ Elect. Test 2/ Elect. Test 2/ 2.3.1 (A-1)100% Vis. & Mech. 3/ 2.3.2 (A-2)100% Elect. Test 2.3.3 (A-3)100% Elect. Test 2.3.4 (A-4) 100% Elect. Test

- 1/ Following completion of Group A Inspection there must be a minimum of 125 acceptable devices.
- Measure the test parameters to a Lot Tolerance Percent Defective (LTPD) of 5%. If any measurement exceeds this LTPD, reject devices shall be replaced with good devices and all devices tested 100% for the failed parameter.
- 3/ Since test was performed at Step 2.2.10, it need not be repeated.

RR - READ AND RECORD

MOTOROL. Semiconduct	tor PR	CRETE DCESS	DEVICE	SJ6708H		DOC. NO.	48ARB64845A
Products Div.	control no.	LOW HIGH REL. L	OT NO	SOURCE TYPE NO.	CHARGE N	PAGE 2	The second se
PHOCEOGON/EXT.		inion net. t	O1 NO.	SOUNCE THE NO.	CHARGE	<b>40</b> .	CASE NO.
2.4.1 (B-1) Elect. Test TABLE IV (M, Phys. Dims. Solderabilit Resist Solv. Thermal Shoc (Temp. Cycli (Glass Strai Term. Streng Hermetic Sea (Fine Leak) (Gross Leak) Moist. Resis Elect. Test TABLE IV (RR	per Elect May Book Salt (st. per lett)	1/ 2/ (B-2) Rejects e Used		2.4.3 (B-3) Elect. Test per TABLE IV (M,G,R Shock Vibr. Var. Fred Const. Accel. Acoustic Elect. Test per TABLE IV (RR,R)	Elect TABLE Safe (Test (Test Elect TABLE		Ġ,R) rea per
	per ER,R) T. ife Souts E  outs E  (RR,R) 1		t per RR,R) te douts IV at 0, 100 2000 h	TABLE I  1. Power Electory TABL  2. Ther  (Tem TABL  3. Vibr (Morn TABL  3. Vibr Electory TABL	B-7) Test per V (RR,R) cr Cycle t. Test E IV (RR Cycli t. Test E IV (RR	per (,R) (ng) per (,R) (req.	
SHIPPING PRO	a es en m en m en m en m en m en en en en	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	u w a a a u				## ## ## ## ## ## ## ## ## ## ## ## ##

SPD 10603 (7/74)

- A total of 125 Test Samples which passed Group A Inspection are required. Some Samples are used in multiple Subgroups. See Trip Ticket.
- 2/ All Test Samples shall be shipped to the customer.

C - CUSTOMER REQUIREMENT
CC - CERTIFICATE OF COMPLIANCE REQ.
S - SUMMARY DATA (ATTRIBUTES) REQ.

D - DESTRUCTIVE TEST
R - REMOVE REJECTS
RR - READ AND RECORD

(AA)	MOTOROLA I	INC.	SPD 1060	)2 (7/74)	ISSUE: E			
0		iconductor Divi	DEVIÇE	SJ6708H		рос. No. 48AŘB64845		
	DISCRET	E PROCESS FLOW					PAGE	9 of
PR	OCESSOR/EXT.	CONTROL NO.	HIGH REL, L	ON TC.	SOURCE TYPE NO.	CHARGE NO	o,	CASE NO.

PROCESSO		ETE PRUCESS FLUM		leaves =	TYPE NO.	AU	PAC		OF	
PROCESSO	R/EXT.	CONTROL NO.	IIGH REL, LOT NO.	SOURCE	TYPE NO.	CHARGE	. NO.	CAS	E NO.	
STEP	DGS	ODEDATION	DESCRIPTION		PROC.	DA			ľ	UNT
NO.	CODE	OPERATION	DESCRIPTION		CODES	12	OUT	VERIF.	COUNT	OUT
2.4.1		(B-1) Sample Size = 20 T Accept No. 0	[ota]		C,S					
2.4.1.1		Electrical Test pe Limit 1	er TABLE IV,		M,G,R				:	
2.4.1.2		Physical Dimension Method 2066* Package per Page 1 Test 5-samples. N permitted.	l		R					
2.4.1.3		Solderability Method 2026* Use of mildly acti allowable (Superior Test 2-samples. N permitted.	or 30 or equiv			·				
2.4.1.4		Resistance to Solv MIL-STD-202, Metho All areas of the tapplied shall be to no evidence of med markings shall ren Test 2- samples.	od 215 transistor bod orushed. Afte chanical damag main legible.	er test: le to th	ng, there ne device	shall	een be			
		be combined	ed in performi I with the unt sequent tests.	ested s	amples an	d used	11			
2.4.1.5		Thermal Shock (Ten MIL-STD-202, Metho Cond. C except 10 t(extremes) = 15 n	od 107 cycles							
		* Methods per MIl	STD <b>-750</b>			i				

C – CUSTOMER REQUIREMENT CC – CERTIFICATE OF COMPLIANCE REQ. S – SUMMARY DATA (ATTRIBUTES) REQ.

D – DESTRUCTIVE TEST G – GO – NO GO

M – MOTOROLA OPTIONAL REQUIREMENT R – REMOVE REJECTS RR – READ AND RECORD 5.√

M MOTOROLA INC.				02 (7/74)	<del> </del>		DOC. NO.					
Discrete Semiconductor Division			DEVICE		5J6708H	48ARB6484						
	RETE PROCESS FLOW							PAGE 10 OF				
PROCESSOR/EXT	CONTROL NO.	HIGH REL.	LOT NO.	SOURCE	TYPE NO.	CHARG	E NO.	CAS	CASE NO.			
STEP DGS				<u> </u>	PROC.	DATE		<b>!</b>	cou	COUNT		
NO. CODI	OPERATIO	ION		CODES	IN	OUT	VERIF.	IN	OU			
2.4.1	(B-1) (conti	nued)										
2,4.1.6	Thermal Shock (		ain)									
2.4.1.7	Terminal Streng Method 2036*, 0 WT = 10 lbs., t	ond. A		•								
2.4.1.8	Hermetic Seal Method 1071*											
2.4.1.8.1	Fine Leak Cond. G or H Leak Rate < 1 >	( 10 <sup>-8</sup> Atm	cc/Sec	•	R							
2.4.1.8.2	Gross Leak Cond. A, B, C,	D or F			R							
2.4.1.9	Moisture Resist Method 1021* Omit initial co	•	g				i e					
2.4.1.10	Electrical Test Limit 1	per TABL	E IV		RR,R		•	; ;				
	Subgroup	nples which shall be roup (B-7)	saved	and use	pass the	is sts						
	* Methods per	MIL CTO 7	F0						<u> </u>			
	* Methods per	HIL-318-7	<b>5</b> 0									
C – CUSTOM	ER REQUIREMENT CATE OF COMPLIANCE		DESTF GO I	RUCTIVE	TEST M	- MOTOI	ROLA O	PTIONAL	REQUI	REME		

	MOTOROLA INC. Discrete Semiconductor Division				02 (7/74)	٠,		DOC. NO. ACADECAGATA					
Pisc		<i>miconductor Divis</i> i ETE PROCESS FLOW	ion <sub>.</sub>	DEVICE	•	SJ6708H		-	11	8ARB64	845A		
PROCESS		CONTROL NO.	HIGH REL. L	CT NO.	SOURCE	TYPE NO.	CHARGE	PAG NO.		OF E NO.			
STEP NO.	DGS	OPERATIO	N DÉSCRIPTI	ION		PROC.	DA <sup>*</sup>	TE OUT	VERIF.	COL	OUT		
2.4.2		(B-2) <u>1</u> / Sample Size = 20 Accept No. = 0	Total		•	C,S	114			111	001		
2.4.2.	.4.2.1 Salt Atmosphere (Corro			n)		R					}     		
	MIL-STD-750, Method 10 See NOTE 5.3 for Samp			lisposi	ition.								
	See NOTE 5.3 for Samp												
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	1/ E?ectrical rjejcts			ıy be ı	used.	1							

C -- CUSTOMER REQUIREMENT CC -- CERTIFICATE OF COMPLIANCE REQ. S -- SUMMARY DATA (ATTRIBUTES) REQ.

D - DESTRUCTIVE TEST G - GO - NO GO

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	rete Se	miconductor Divis	ion	DEVICE	•	SJ67081	4 .	DOC	. NO.	48/	ARB648	45A		
,		ETE PROCESS FLOW					-	PAG			OF			
PROCESSO	PR/EXT.	CONTROL NO.	HIGH REL. L	OT NO.	SOURCE	TYPE NO.	CHARG	E NO.		CASE	NO.			
STEP	DGS	ODED ATIO	N DESCRIPTI	ION!		PROC.	DA	TE			cou	NT		
NO.	CODE	OPERATION	V DESCRIPTI	IUN	ارم دندور در دنوری	CODES	IN	OUT	VER	IF.	IN	OUT		
2.4.3		(B-3) Sample Size = 20 Accept No. = 0	Total		,	C,S								
2.4.3.1		Electrical Test Limit 1	per TABLE	ر۱۷ :		M.G.R								
2.4.3 <i>.</i> 2		Shock (Non-Opera Method 2016* 1500G's, t = 0.5 5 blows each in directions. (20 blows total)	imSec. XI, YI, Y	'2 and 1	<b>Z1</b>									
2.4.3.3	3	Vibration, Var. Method 2056*	Freq.							ļ				
		The transistors vibrational envi		expose	d to ti	e follow	ing							
		a) Sinusoic	lal: (four	one o	ctave p	er minute	sweep	s)	1		ļ			
		25 to 18 180 to 3	Hz at 0.3 30 Hz at 1 315 Hz at 2000 Hz at	2G pea 0.008	k inch D	<b>A</b>					:			
		b) Random:												
		20 to 12 1200 to 1400 to	200 Hz at 1400 Hz a 2000 Hz a	0.3 (G at 48db at 3.5	rms) <sup>2</sup> , /octav (Grms)	Hz rise <sup>2</sup> /Hz								
		* Methods per N	1IL-STD-75	50										
				-										
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C – CUSTOMER REQUIREMENT CC – CERTIFICATE OF COMPLIANCE REQ. S – SUMMARY DATA (ATTRIBUTES) REQ.

D – DESTRUCTIVE TEST G – GO – NO GO

DISCRETE PROCESS FLOW  PROCESSORIVEXT. CONTROL NO. HIGH REL LOT NO. SOURCE TYPE NO. CASE NO. CASE NO. CODE  STEP DGS OPERATION DESCRIPTION  PROC. CODES IN OUT VERIF. IN O	MOTO Discr		n 1766. miconductor Divis	sion <sub>.</sub>	DEVICE	2 (7/74)				. K	ARB
STEP DGS OPERATION DESCRIPTION PROC. CODES OPERATION DESCRIPTION CODES OPERATION DESCRIPTION OPERATION OPERATION DESCRIPTION OPERATION OPERATION DESCRIPTION OPERATION OF THE PROPERTY		DISCR	ETE PROCESS FLOW				SJ6708H				
NO. CODE OPERATION DESCRIPTION  2.4.3  (B-3) (continued)  2.4.3.4  Constant Acceleration MIL-STD-750, Method 2006 20,000G's X1, Y1, Y2 and Z1 directions  Acoustic MIL-STD-810, Method 515.2 Field Acoustic environment at 174db.  Electrical Test per TABLE IV, RR,R Limit 1  Codes IN OUT VERIF. IN OUT VERLE VERY VERY VERY VERY VERY VERY VERY VER	PROCESSO				OT NO.	SOURCE	TYPE NO.	CHARGE			
2.4.3 (B-3) (continued) 2.4.3.4 Constant Acceleration MIL-STD-750, Method 2006 20,000G's X1, Y1, Y2 and Z1 directions 2.4.3.5 Acoustic MIL-STD-810, Method 515.2 Field Acoustic environment at 174db. Electrical Test per TABLE IV, RR,R 2.4.3.6 Electrical Test per TABLE IV, MR,R  CoulsTOMER REQUIREMENT			OPERATIO	N DESCRIPT	ON			DA	ΤĘ		C
2.4.3.4 Constant Acceleration MIL-STD-750, Method 2006 20,0000g's X1, Y1, Y2 and Z1 directions  2.4.3.5 Acoustic MIL-STD-810, Method 515.2 Field Acoustic environment at 174db.  Electrical Test per TABLE IV, RR,R Limit 1  Constant Acceleration MIL-STD-750, Method 2006 20,000g's X1, Y1, Y2 and Z1 directions  Acoustic MIL-STD-810, Method 515.2 Field Acoustic environment at 174db. RR,R  Constant Acceleration MIL-STD-750, Method 2006 20,000g's X1, Y1, Y2 and Z1 directions  Acoustic MIL-STD-810, Method 515.2 Field Acoustic environment at 174db. RR,R  Constant Acceleration MIL-STD-750, Method 2006 20,000g's X1, Y1, Y2 and Z1 directions  Acoustic MIL-STD-810, Method 515.2 Field Acoustic MIL-S	NO.	CODE					CODES	IN	OUT	VERIF.	IN
MIL-STD-750, Method 2006 20,000G's X1, Y1, Y2 and Z1 directions  Acoustic MIL-STD-810, Method 515.2 Field Acoustic environment at 174db.  Electrical Test per TABLE IV, Limit 1  RR,R  M MOTORNIA APPLICANAL REC	2.4.3		(B-3) (continu	ed)							
MIL-STD-810, Method 515.2 Field Acoustic environment at 174db. Electrical Test per TABLE IV, RR,R Limit 1  CCUSTOMER REQUIREMENT	2.4.3.4		MIL-STD-750, Me 20,000G's X1, Y	thod 2006	Z1						
C_CUSTOMER REQUIREMENT	2.4.3.5		MIL-STD-810, Me			74db.					
C = CUSTOMER REQUIREMENT	2.4.3.6		Electrical Test Limit 1	per TABLE	وVI		RR,R	:			
C = CUSTOMER REQUIREMENT											
C = CUSTOMER REQUIREMENT			·								
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C - CUSTOMER REQUIREMENT M - MOTOROLA OPTIONAL REQ						;					
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C – CUSTOMER REQUIREMENT  CC – CERTIFICATE OF COMPLIANCE REQ.  S – SUMMARY DATA (ATTRIBUTES) REQ.  D – DESTRUCTIVE TEST R – REMOVE REJECTS RR – READ AND RECORD	C – Ch2.	TOMER	REQUIREMENT	D -	DESTRU	JCTIVE 7	rest M-	MOTOR	DLA OP	TIONAL I	REQ

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	rete Se	<i>miconductor Divis</i> ETE PROCESS FLOW	ion C	EVIGE	•	SJ6708H			48	RB6484	15A		
ROCESSO		CONTROL NO.	HIGH REL. LO	T NO.	SOURCE	TYPE NO.	CHARGE	PAG NO.	E 14 CAS	oF SE NO.			
STEP	DGS			ئــــــــــــــــــــــــــــــــــــ		PROC.	DAT	Ē	T -	COL	JNT		
NO.	CODE	OPERATION	N DESCRIPTIO	N		CODES	IN	OUT	VERIF.	IN	ΟU		
2.4.4		(B-4) Sample Size = 20 Accept No. = 0	) Total			C,S							
2.4.4.1		Electrical Test Limit 1		M,G,R									
2.4.4.2		Safe Operating A (Switching) MIL-STD-750, Met Cond. C (Unclamp Rs = $0.1\Omega$ , tr = DC $\leq 10\%$ , TA =	thod 3053 med induction tf < 500nS		ad)								
2.4.4.	2.1	Test #1  tp = 5mSec. (Var RBB1 = 10Ω, VBB1 RBB2 = ∞, VBB2 VCC = 25V, IC = L = 5mH (Super B Type S16884 in p DC resistance <	l = 16V 2 = 0 = 7.0A Electric Co parallel or	rp.									
2.4.4.	2.2	Test #2  tp ~ 5mSec. (Var RBB1 = 100Ω, VBB RBB2 = ∞, VBB2 = VCC = 25V, IC = L = 100mH (Two T 80mH winding and equivalent; DC T	32 = 10V = 0 = 0.5A [riad C48U i 20mH wind	in se	ries;								
2.4.4.	3	Electrical Test Limit 1	per TABLE	۱۷,		RR,R							
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C – CUSTOMER REQUIREMENT CC – CERTIFICATE OF COMPLIANCE REQ. S – SUMMARY DATA (ATTRIBUTES) REQ.

D - DESTRUCTIVE TEST G - GO - NO GO

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<b>(M)</b>	MOTOROLA	INC.
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DEVICE .

SPD 10602 (7/74)

48ARB64845A

SJ6708H

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DISCRETE PROCESS FLOW 15 PROCESSOR/EXT. CONTROL NO. CHARGE NO. HIGH REL. LOT NO. SOURCE TYPE NO. CASE NO. STEP DGS PROC. DATE COUNT OPERATION DESCRIPTION NO. CODE CODES VERIF. IN OUT OUT ŧΝ 2.4.5 C,S (B-5)Sample Size = 20 Total Accept No. = 1 2.4.5.1 High Temperature Life (Non-Operating) MIL-STD-750, Method 1031 TA =  $200^{\circ}$ C, t = 1000 hrs Total 2.4.5.1.1 Electrical Test per TABLE IV, RR,R Limit 1 2.4.5.1.2 0-340 hr. High Temp. Life t = 340 hours2.4.5.1.3 340 hour Electrical Readout RR,R per TABLE IV, Limit 2 2.4.5.1.4 340-670 hr. High Temp. Life t = 330 hrs.2.4.5.1.5 670 hour Electrical Readout RR,R per TABLE IV, Limit 2 (Delta calculations reference to values recorded at 0-hours). 2.4.5.1.6 670-1000 hr. High Temp. Life t = 330 hours2.4.5.1.7 1000 hour Electrical Readout RR.R per TABLE IV, Limit 2 (Delta calculations reference to values recorded at O-hours).

C - CUSTOMER REQUIREMENT
CC - CERTIFICATE OF COMPLIANCE REQ.
S - SUMMARY DATA (ATTRIBUTES) REQ.

D - DESTRUCTIVE TEST G - GO - NO GO M – MOTOROLA OPTIONAL REQUIREMENT R – REMOVE REJECTS

RR - READ AND RECORD

M) MOTOROLA INO.	SPD 10602 (7/74)	155UE, <b>C</b>
Discrete Semiconductor Division	DEVICE	рос. но.
DISCRETE PROCESS FLOW	SJ6708H	PAGE 16

SOURCE TYPE NO. CHARGE NO. PROCESSOR/EXT. CONTROL NO. HIGH REL. LOT NO. CASE NO. PROC. COUNT DGS DATE STEP **OPERATION DESCRIPTION** CODE CODES VERIF. NO. IN OUT IN OUT C,S 2.4.6 (B-6)Sample Size = 40 Total. Accept No. = 1 Steady State Operation Life 2.4.6.1 MIL-STD-750, Method 1026 VCE > 20V, TJ =  $187.5 \pm 12.5^{\circ}$ C, AJC =  $7.9^{\circ}$ C/W Adjust IC to maintain specified TJ. t = 2000 hrs. Total2.4.6.1.1 Electrical Test per TABLE IV, RR,R Limit 1 2.4.6.1.2 0-168 hour Steady-State Oper. Life t = 168 hours2.4.6.1.3 RR,R Electrical Test per TABLE IV, Limit 2 2.4.6.1.4 168-340 hour Steady-State Operating t = 172 hours2.4.6.1.5 RR,R 340 hour Electrical Readout per TABLE IV, Limit 2 340-670 hour Steady-State Operation 2.4.6 1.6 Life t = 330 hours2.4.6.1.7 670 hour Electrical Readout per TABLE IV, Limit 2 1/ Perform concurrently with Burn-In (Step 2.2.6).

C - CUSTOMER REQUIREMENT
CC - CERTIFICATE OF COMPLIANCE REQ.
S - SUMMARY DATA (ATTRIBUTES) REQ.

D - DESTRUCTIVE 1 EST G - GO - NO GO M - MOTOROLA OPTIONAL REQUIREMENT R - REMOVE REJECTS

RR - READ AND RECORD

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Disci		emiconductor Divisi	on <sup>1</sup>	DEVICE		SJ6708H		Doc.	No. 48	ARB648	45A
PROCESSO		CONTROL NO.	HIGH REL. LO	T NO.	SOURCE	TYPE NO.	CHARGE (	PAG NO.		OF SE NO.	
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2.4.6		(Continued)									
2.4.6.1	.8	670-1000 hour St Life t = 330 hours	eady-State	0per	ation						
2.4.6.1	<b>.</b> 9	1000 hour Electr per TABLE IV, Li (Delta calculati values recorded	mit 2 ons refere	nce t	0	RR,R					
2.4.6.3	-10	1000-1500 hour S Life t = 500 hours	teady-Stat	е Оре	ration						1
2.4.6.1	.11	1500 hour Electr per TABLE IV, Li (Dalta Calculati valued recorded	mit 2 ons refere	nce t	0	RR,R					
2.4.6.1	.12	1500-2000 hour S Operation Life t = 500 hours.	teady-Stat	e							
2.4.6.	.13	2000 hour Electr TABLE IV, Limit (Delta Calculati values recorded	2 ons refere	nce t		RR,R					
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C -- CUSTOMER REQUIREMENT CC -- CERTIFICATE OF COMPLIANCE REQ. S -- SUMMARY DATA (ATTRIBUTES) REQ.

D - DESTRUCTIVE TEST G - GO - NO GO

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PROCESSO	R/EXT.	CONTROL NO.	HIGH REL. L	OT NO.	SOURCE	TYPE NO.	CHARGE	NO.	CA	SE NO
STEP	DGS	OPERATI	ON DESCRIPT	ION		PROC.	DA	TE		
NO.	CODE					CODES	IN	OUT	VERIF.	IN
2.4.7		(B-7) Sample Size = 4	15 Total	<del></del>		C,S				
:		the Samp	Samples of Samples of Samples that some (B-1).	uccess						
2.4.7.1		Electrical Test Limit 1	per TABLE	IV,		M,G,R		-		
2.4.7.2		Power Cycling Sample Size = 1 Accept No. = 0	15			•				
2.4.7.2	.1	Select 15 sampl Sample Lot and Serial Numbers					   			
2.4.7.2	.2	Power Cycle Tes VCE = 100V, T/ Adjust PD to ob $\Delta$ TC = 75°C ton = toff = 5	\ = 25 <u>+</u> 3 <sup>c</sup> otain TC =	°C 100°C	or					
2.4.7.2	.3	Electrical Test Limit 1 at 1000 (One cycle is o "on", 5 minutes	) cycle int defined as	ervals: 5 minu	tes	RR,R equired				
2.4.7.3		Thermal Shock (Sample Size = 3 Accept No. = 0		ing)	•					
2.4.7.3	.1	Select 15 sampl Sample lot and Serial Numbers.	record the	e Test Devic	е					
2.4.7.3	.2	Thermal Shock ( MIL-STD-202, Me Test per FIGURE T(low) = -650C,	thod 107 : 4							
2.4.7.3	.3	Electrical Test Limit 1 at 25, 500 cycles.	per TABLE 75, 175, 3	IV 00, and	d	RR,R				
			•							
C - CUS	TOMER	REQUIREMENT TE OF COMPLIANCE	ln_	- DESTRI	ICTIVE:	TEST M -	MOTOR	OLA OF	TIONAL	REC

(A) MOT	ronol	A	INC.		SPD 106	02 (7/74)			15506	: E		
			iconductor Divis	ion	DEVICE		SJ6708H			. NO.	A O D & A (	0450
	DISCF	ET	E PROCESS FLOW				30070011			, 19	3ARB648	345A
PROCESSO	OR/EXT.		CONTROL NO.	HIGH REL. L	OT NO.	SOURCE	TYPE NO.	CHARG	E NO.		SE NO.	
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STEP	DGS		OPERATION	N DESCRIPTI	ION		PROC. CODES		TE	VERIF.	cou	1
NO. CODE			· · · · · · · · · · · · · · · · · · ·				1N	OUT	VENIF.	IN	OUT	
2.4.7		(Continued)										
2.4.7.	Vibration, Variable Freq			ble Frequ	ency							
2.4.7.4	.1	S S S	elect 15 sample amples Lot and erial Numbers ample Size = 15 ccept No. = 0	record th								
2.4.7.4	.2	(M V 1 S r	ibration, Varia Monitored) IL-STD-750, Met CES = 400V 20G's or 0.1 in ine wave 5 to 2 eturn to 5Hz in 1, Y1, and Z1 o	hod 2057 ch DA as a 000Hz in	applic 7.5 mi	able.		,				
2.4.7.4	.3	E L t	lectrical Test imit 1 followin esting in each XI, YI, and ZI)	per TABLE g complet orientati:	IV, ion of		RR,R					
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C - CUSTOMER REQUIREMENT CC - CERTIFICATE OF COMPLIANCE REQ. S - SUMMAPY DATA (ATTRIBUTES) REQ.

D - DESTRUCTIVE TEST G - GO - NO GO



TITLE: SJ6708H 48ARB64845A PAGE 2.0 OF

#### NOTES

- 4. DATA REQUIREMENTS:
- 4.1 Motorola shall retain one copy of all data for a period of three years from date of P.O.
- 4.2 Data to ship with Devices:
- 4.2.1 C of C for internal Visual Inspection (Step 0.1)
- 4.2.2 Summary Data for 100% Processing, Group A and B Inspections (Step 2.2, 2.3, and 2.4).
- 4.2.3 All variables data and delta calculations for 100% Processing and Group B Inspections (Steps 2.2 and 2.4).
- 4.3 Final Report
- 4.3.1 Three draft copies of the Final Report shall be submitted to the Customer for approval prior to Final Printing and Distribution.
- 4.3.2 The Final Report shall contain the following:
  - a) A detailed description fo each test setup with identification of critical test equipment, test circuit diagrams and procedures.
  - A narrative discussion of test results, conclusions, and recommendations.
  - c) Measurement data, and as applicable, Tables, Graphs, Diagrams, Sketches, Curves, Procedure Photographs and Drawings.

As part of the Final Report, Motorola shall also complete and submit to MSFC Government Industry Data Exchange Program (GIDEP) Form 2:11-72.

4.3.3 Following approval of the Final Report by the Customer, 15 copies shall be sent per the distribution list furnished by the Customer.



		ISSUE: E
TITLE:		48ARB64845A
·	SJ6708H	PAGE 21 OF

### NOTES (COntinued)

- 5. SHIPPING INSTRUCTIONS:
- 5.1 Customer Program Manager shall be notified prior to shipment of Test Samples (DD250 forms must be supplied).
- 5.2 Tray pack per MIL-S-19491, Level C.
- Package Salt Atmosphere Test Samples separately and mark package "SALT ATMOSPHERE (Corrosion) TEST SAMPLES."

- 6. GENERAL NOTES:
- 6.1 Marking Instructions: Mark Devices with 04713, SJ6708H,
  Date Code per MIL-S-19500,
  RES1075-01(1), and Serial Number.
- 6.2 The following deviations to customer print
  Request # 8-1-T-EC-06242, Exhibit A, are authorized per
  TWX from H. Garrett, NASA to W. Albertin, Motorola, dated
  7-18-77. (Copy of TWX on file with SAR for issue 0 of this
  specification.)
- 6.2.1 TABLE III, hFE4 shall be 7 min.
- 6.2.2 TABLE III, ES/B shall be 125 mJ min.
- 6.2.3 TABLE III, hFE1 shall be @ VCE = 3V.
- 6.2.4 FIGURE 3: changed resistor values for tf test only.
- 6.2.5 Burn-In and Operation Life shall be performed concurrently.
- 6.2.6 Revised FIGURE 2.
- 6.2.7 TABLE IV: Operation Life test samples (40) shall not include samples (20) that had Acoustic tests. A test to Burn-In endpoints shall be performed after 168 hours of Operation Life test.

LOT S.S.	#	CHG.#PART CODE LOT QTY LP NAME THRU	READ OUT []		R&I NDA RE	R [] ETEST []	NOTIF	Y:	OURCE INS GSI		EX	т	* PW ≤ 300µSec.,	Semiconductor IN Products Division	
TEST SEQU- ENCE STA- TION	SYMBOL METHOD MIL - STD. 750	CONDI		ŞUB GRP.	LIM	ITS	UNITS	AQL OR LTPD.	TEST SAMPLE SIZE	ACC. ON	REJ. ON	S TEST	DC ≤ 2%	INSPECTION TABLE I	; ; ;
	Vis&Mech. 2071			A-1	,			100%		·				NPN	
	IEBO 3061D	VBE = 8.0V			-	1.0	mA						<del> </del>   <del> </del>		ı
	ICEO 3041D ICES1	VCE = 450V			-	0.5	mA							1	SPD 10605 (7/74)
	3041C BVCE0 3011D	VCE = 640V IC = 1.0m/A			450	50	μA V							SJ6708H	
	BVCES 3011C	IC = 0.1mA			800	-	٧								
	VBE(s)1			A-3			<del> </del>	100%						PAGE C	ISSUE
	3066A* VCE(s)1 3071*	IC = 8.0A, IB = 1 $IC = 8.0A, IB = 1$			-	2.5 5.0								N 6	K
	VBE(s)2 3066A	IC = 1.0A, IB = (	).1A		-	0.8	٧							48ARB64845A	
	VCE(s)2 3071	IC = 1.0A, IB = 0	).1A		-	1.0	V								

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-			****	RECOR	·	·			* 1		₹)					
LO1 S.S.	T#	CHG.# PART CODE LOT QTY. LP NAME	_   INIT. FINAL [] NDA [] RETEST []				NAME	:sı 🔲	/ Sample Test LT with good devi PW < 300µSec	Semiconductor Products Division						
TEST SEQU- ENCE STA- TION	SYMBOL METHOD MIL - STD- 750	CONDIT  TC =25 C UNLESS OTHERWI	IONS	SUB GRP.	LIM		LNITS	AQL OR LTPD.	TEST SAMPLE SIZE	ACC. ON	1	TEST OP TEST DATE	LTPD = 5%. If levices and perfore DC < 2%	TABLE I	GROUP A	(Continued)
:	hFE1 3076*	VCE = 3.0V, : IC = 3	.0A	A-4	10	40	-	100%				,	If any measi rform that i	NPN	POLARITY	
	hFE2 3076*	VCE = 5.0V, IC = 8	.0A		5	15	-						suremen		DEVICE	SPD 10605
	hFE3 3076	VCE = 1.0V, IC = 1	.0A	A-5	20	60	-						measurement on			05 (7/74)
	hfe 3206	VCE = 5.0V, IC = 1 f = 1.0kHz	.0A	A-0	20	-	-	1/					100%		รูป6708H	
	ton 3251	See FIGURE 3			-	0.6	μS	1/					of the	h.		
	toff 3251	See FIGURE 3			-	5.0	μS	1/					the devices	PAG	000	1850
	tf 3251 /hfe/	See FIGURE 3  VCE = 10.0V, IC =	0.3A		-	1.0	иS	1/						2	. 20.	$\mathcal{U}$
	3306 Cobo 3236	f = 1MHz VCB = 10.0V 100kHz < f < 1MHz			5 -	30 250	pF	1/					Jace re	23 cr	48ARD64845A	
						1.50							sapala		15A	

		CHO #		EST RECORI	DS		CUSTO	MER-	<u></u> .					*	124	3
LOT	#	CHG.# PART CODE LOT QTY. LP NAME THRU	OFF LINE DATE	OFF LINE DATE			SOURCE INSPECTION  NOTIFY: GSI CSI NAME EXT.  PREVIOUS TEST						Sample Test L good devices PW ≤ 300µSec.	enticonductor roducts Division	Ù	
TEST SEQU- ENCE STA- TION	SYMBOL METHOD MIL + STD+ 750	CONI TC=25 °C UNLESS OTHER	DITIONS RWISE SPECIFIED	SUB GRP.	LIM	MAX.	UNITS	AQL OR LTPD.	TEST Sample Size	ACC. ON	REJ. ON	NO. OF REJECTS	TEST OP TEST DATE	LTPD = 5%. I s and perform c., $DC \le 2\%$	TABLE I	GROUP A
				A-6	, ·									다 ㅋ	<u> </u>	₽ O E
	ICES2 3041C	VCE = 640V TC = 150°C			_	2.5	mA	<u>1/</u>					,	easure t meas	NPN	ARITY
	hFE4 3076*	VCE = 1.0V, IC = TC = -65°C	1.0A		7	-	_	<u>1</u> /						measurement exceeds the at measurement on 100%	 	DEVIC
				A-7										excee		DEVICE
	ӨЈС 3151				<u>-</u>	7	oc/M	1/						100%		
	ES/B	See FIGURE 2			125	***	mJ	<u>1</u> /					· .	of th	٥	18073L.S
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I man and a second

CTL.	•	CHG.#PART CODE LOT QTYSUB. GRP		WARN PLETE ME	ING	NTS	CUST	FY:	SOUR	RCE IN	ISPEC	CSI [		i		Semicone Products	•
S/N R LTPD	ANGE	ACC. REJ	Maria assess	e de ense la Livina		Charles and		/IOUS								onductor	
TEST SEQU- ENCE	SYMBOL METHOD	CONDITIONS		INITI			DINTS 2	UNITS	READ	OUT	district the same	RECOR	R RO CDE			TABLE	CIECTR
STA+ TION	MIL-STD 750	TC-25 °C UNLESS OTHERWIS	E SPECIFIED	MIN	мах	MIN	MAX	3					OFF DATE			m 5	5
	3041C	VCE = 640V		-	50	-	50	μA				•-	OPER- ATOR NO. OF REJECTS		NPN		POLARIT
	ΔICES1	(Whichever is great	ter)				100% or + 20	uA	of	init	ial	readi	DATE OPER- ING ATOR		-		
	BVCEO 3011D	IC = 1.0mA		450	-	-	-	٧	:				DATE OPER* ATOR				SPD 10601 (7/74)
	BVCES 3011C	IC = 0.1mA		800	-	-	-	V					DATF OPER- ATOR NO. OF REJECTS			SJ6708H	
	VCE(s)2 3071	IC = 1.0A, IB = 0	.1A	-	1.0	-	1.0	V					DATE OPER- ATOR				
	hFE3 3076	VCE = 1.0V, IC = 1	1.0A	20	60	20	60	-					DATE , OPER- ATOR NO-OF REJECTS		PAGE 2	2	ISSUE:
	ΔhFE3					-	+ 20%		of	init	ial	readi	DATE OPER- NG ATOR NO. OF REJECTS		S OF	48ARB6	1,1
	ES/B	See FIGURE 2		125		-		mJ					DATE OPER- ATOR NO. OF REJECTS			4845A	

\* 1

LOG#		CHG.#	Carried Commence	WAR	AND AND DESCRIPTION OF THE PARTY OF THE PART	os-antinos o los lo		TOMER						12/2	1	(3)	
LOT# S.S S/N F	ANGE_	PART CODE LOT QTY SUB. GRP THRU	COMP BY D	ATE	ASUREME TIME		NAME	FY:	GS			CTION CSI [ EXT.		May be S that mea	21+3 23	MOTOROLA INC. Semiconductor Products Divisio	
LTPD	/AQL	_ ACC REJ	Q.A.	ACC.	RE.	J. 🔲	PRE	vious	TEST					measurement on 100% of	10112+	OROLA INC. iconductor ucts Division	
										1	EST	RECOR	DS	Tes Tes		m	
TEST SEQU-	SYMBOL METHOD	CONDITIONS		INIT	IAL 1		DINTS 2	TS	REAL	OUT	GNG	R	RO CDE	ted I	2	ELECTRICAL TABLE	
STA- TION	MIL-STD 750	TC-25°C UNLESS OTHERWISE	SPECIFIED	MIN	MAX	MIN	MAX	UNITS					OFF DATE	_TPD 0	17 5	RICAL	
	ICES1 3041C	VCE = 640V		-	-	-	50	μА					DATE OPER* ATOR	f the c	Powfo	POLA	
	ΔICES 1	(Whichever i	s greater)	-		· -	100% or + 20	uA	of	init	ial	readi	DATE  DATE  MG OPER-  ATOR	5%. If any mea	N N	RITY DEN	SPD
	VCE(s)2 3071 <u>2</u> /	IC = 1.0A, IB = 0.		-		-	1.0	V					DATE OPER- ATOR	measurement e in the lot.	h poton	TICE	10601 (7/74)
	hFE3 3076	VCE = 1.0V, IC = 1	.0A	-	-	20	60			•			DATF OPER- ATOR NO. OF REJECTS	ent exceeds .	onco to di	SJ6708H	
	ΔhFE3			-	-	-	+ 20%		of	init	ial	readi	DATE	ds the sp	אם אספסי	•	
	hFE4 3076 <u>2/</u>	VCE = 1.0V, IC = 1 TC = -65°C	L.OA	-	- /	7	-	-		51			DATE OPER- ATOR NO. OF REJECTS	the specified L	PAGE Z	DOC. NO.	ISSUE:
	ICES2 3041C	VCE = 640V TC = 150°C		-	-	-	2.5	mA			-		DATE OPER- ATOR NO. OF REJECTS	TPD,	6 OF	8ARB6484	7
	tf 3251	See FIGURE 3		-	-	-	1.0	μS					DATE OPER- ATOR NO. OF REJECTS	perform		15A	

H 6 - 6 (1)

		CHG.#PART CODE	Marine a service	WARN				OMER			····				].	<b>3</b>	)
LOT#		LOT QTYSUB. GRP	REAL.	LETE ME	TIME	<u>:</u>	NOT I NAME	FY:	GSI		SPECT C	ION SI _ XT	]		00000	MOTOROLA Semiconduc roducts Di	
		ACCREJ		ACC.	RE.	J. 🗌	PRE	/IOUS :	rest_							A INC. luctor Division	
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TEST	SYMBOL	CONDITIONS		INITI	AL 1	END PO	DINTS 2	1	REAL	OUT	GNG	RR			1	닌단	
SEQU- ENCE	METHOD			LIMI	TS	LIM	ITS	TS					RO CDE	-		B	í
+ATR	MIL-STD 75∪	TC-25 °C UNLESS OTHERWISI	SPECIFIED	MIN	мах	MIN	мах	UNITS					OFF DATE		IV	TABLE	
	ICES1 3041C	VCE = 640V		-	50	-	50	μА					DATE OPER• Ator		Z	Ţ	_
							<u> </u>	<u></u>					NO. OF REJECTS		NP N	1	. I
	ΔICES1	4		_	-	-	100% or		of i	initia	ıl rea	ading	DATE OPER• ATOR		-		1
		(Whichever is	greater)	1			+ 20	uA					NO. OF REJECTS	]		,	5
	BVCES 3011C	IC = 0.1mA		800	-	800	-	٧					DATE OPER* ATOR			n	SPD 10601 (7/74)
					i	ĺ	1						NO. OF REJECTS	1			2
	VCE(s)2	IC = 1.0A, IB = 0.	IA	_	1.0	-	1.0	٧		<del> </del>			DATF OPER- ATOR			SJ6708H	
										<del> </del> -			NO. OF REJECTS	1		罂	
	hFE3 3076	VCE = 1.0V, IC = 1	1.0A	20	60	20	60	-					DATE OPER- ATOR				
				1	1	ł		1		1			NO. OF REJECTS	]	ł		1
	ΔhFE3			-	_	-	+ 20%		of ·	initia	ıl rea		DATE OPER- ATOR NO. OF		PAGE	0000	ISSUE:
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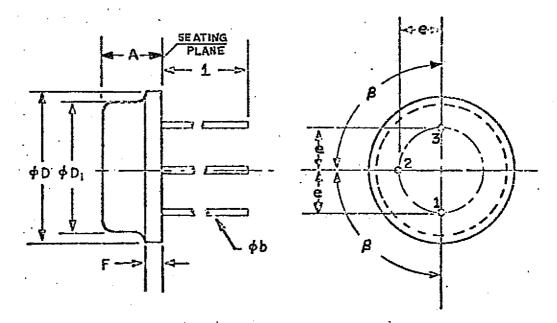


MOTOROLA INC. Semiconductor Products Division

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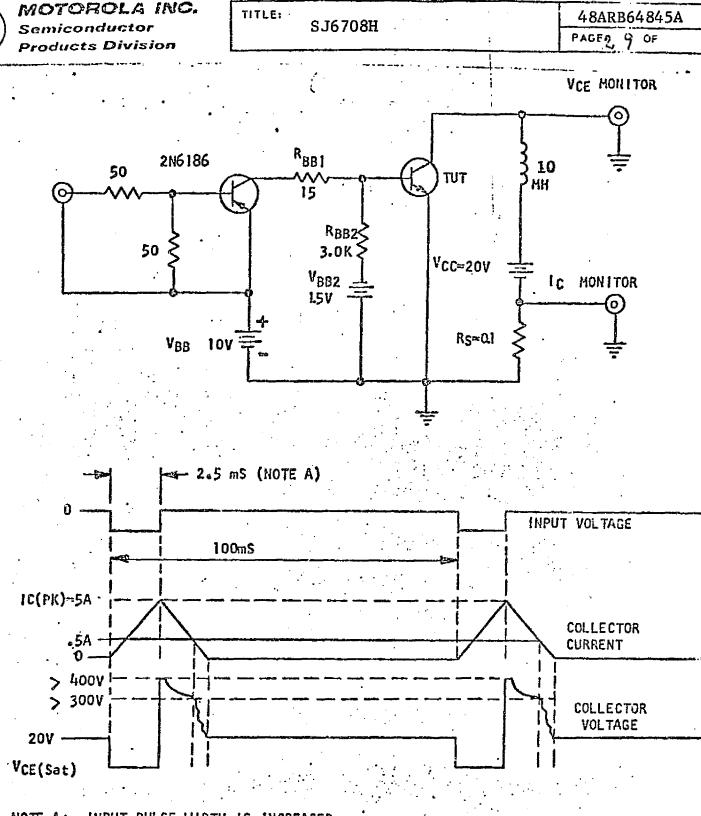


	INC	HES	MILLI	METERS			
SYMBOL	MIN.	MAX.	MIN.	MAX.	MOTES		
· A	:270	.330	6.86	8.38			
<b>ф</b> Ъ	.027	•033	.686	.838	1		
φD .	.550	.650	13.97	16.51			
ød <sub>1.</sub>	<b>.4</b> 44	.524	11.28	13.31			
. e	.136	.146	3.45	3.71			
I!		.115	i i	2.92			
1	.360	- 440	9.14	11.18	ı		
β	90° N	MINAL					

#### NOTES:

1. TEREE LEADS.

FIGURE 1. PACKAGE OUTLINE.



ISSUE: E

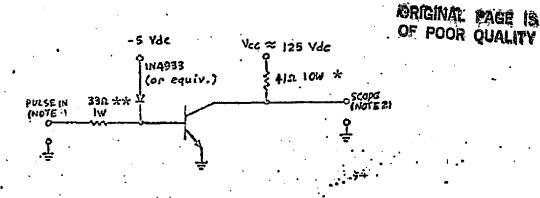
.NOTE A: INPUT PULSE WIDTH IS INCREASED UNTIL IC (PK)=5A

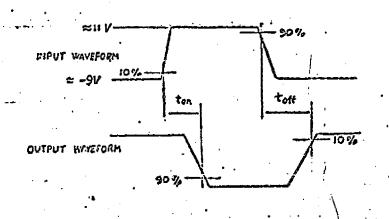
FIGURE 2



# MOTOPOLA INC. Semiconductor Products Division

TITLE: SJ6708H 48ARB64845A PAGE 30 OF





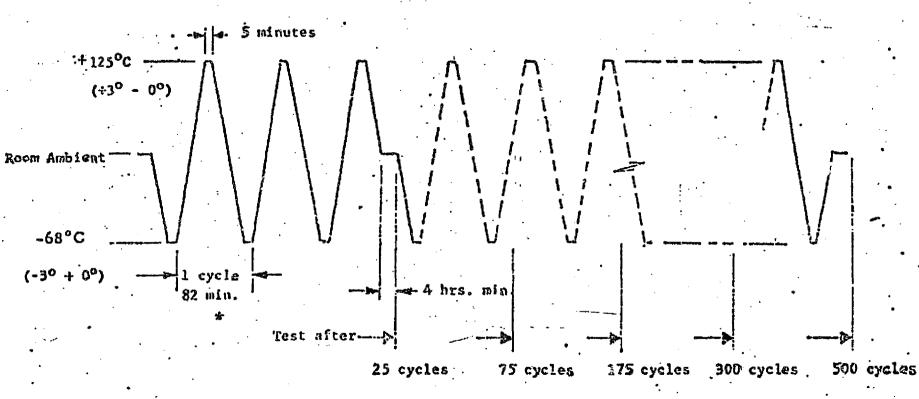
### NOTES:

- 1. The rise time  $(t_r)$  and fall time  $(t_f)$  of the applied pulse shall be each  $\leq 20$  ns; duty cycle  $\leq 1\%$ , generator source impedance shall be be  $50^{-12}$ ; pulse width = 30 us.
- 2. Output sampling oscilloscope:  $Z_{in} \ge 20 \text{ k.a.}$ ,  $C_{in} \le 50 \text{ pF}$ ; rise time  $\le 20$

#### TEST CONDITIONS:

Turn-off Time Fall Time Turn-on Time VCC 125Vdc 125Vdc VCC 125Vdc VCC IC = 3.0AIC = 1.0AIC = 3.0A\* use  $120^{\circ}$  ohms, 5W (tf only) IB1 = 0.3AIB1 = 0.3A-IB2 = 0.3A\*\* use 100 ohms, 1W (tf only)

FIGURE 3. PULSE RESPONSE TEST CIRCUIT AND CONDITIONS.



\*About five degrees per minute

FIGURE 4. THERMAL TEST PROFILE.

ORIGINAL PAGE IS

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MOTOROLA INC. Semiconductor

REVISION SHEET

SPD 1324 R-5 (7/74) DEVICE

SJ6708H

DOC. NO. 48ARB64845A

**Products Division** 32 of 32-PAGE ORDERS IN WHSE. WRITER ACC'Y REV. LTR. TOCK PROC. REVIEW & RELEASE DESCRIPTION OF REVISION AFFECT-AFFECT-DATE DATE ΕĐ DATE H.LOEB Α Exchanged "Signed" Customer Approval page 2 contained YES NO wfm herein. Step 2.4.4.2.1 test condition IC was 5-5-77 5-6-77 IC = 8.0A. toff was 3.0uSec. max. in TABLE I. Added NASA letter reference which modified Customer specification RES1075. D.E. YES. NO JDG Added NOTE 6.2. Added flagnote to steps R 2.2.6 & 2.4.6. Deleted boxed notes on sub-8-1-77 8-1-77 groups B-3 & B-6. Added 168 hr. readout to B-6. TABLE I:hFE1 was @ VCE = 1V. TABLES I & III:hFE4 was 10 min. TABLES I & II: ES/B was 30mJ min. Added tf note to FIGURE 3. Revised FIGURE 2. 8-11-77 D.E TABLE IV, VCE(s)2 condition was: IC=1.0A, IB=1.0A. C NO W.W. NO (Typo error only) 9-22-77 9-22-21 9-22-77 Added  $\Theta JC = 7.0^{\circ} C/W$  to Steps 2.2.6 and 2.4.6.1. NO NO H. LOEB D wfm Step 2.4.6.1.3 was per TABLE III, Limit 2 and 10-7-77 10-7-77 Step 2.4.6.1.5 was TABLE III, Limit(to correct typo). 0-8-77 9.7.m. Revised Step 2.4.3.3. TABLE III: ICES1 was at 60V. Ε YES NO M.LOEB 11-14-77 Added Customer Print RC1075. 11-14-77 11-14-77

SECTION D. FAILURE ANALYSIS REPORTS F ... I

RELIABILITY AND QUALITY ASSURANCE DEPARTMENT

# PRODUCT ANALYSIS REPORT

Sec	¬ R•2 (4/74)	•		#243		REPORT	NO. PL-099*	034	
PR	ARED FOR		REFERE	NCE	DEVICE TY SJ6708		LOT NUMBER	CUSTON	MER PART NUMB
	ROCKETDYNE (NASA)	(UNKN)	He REASON	FFAILURE rmetic Sea FOR REJECTION n-hermetic	NC				(AXX)
ECLES	ток Don Brothers	A STANLAND STANLAND		REQUEST	IREL QA	☐ RELIA	BILITY	RMR	☐ OTHER
OTAL	FAILURES 8	QUANTITY RECEI		LOT SIZE	_	SAMPLE			TANCE LIMIT
T DUI	T CODE  AACA/Loc.B	DATE CODE(S) 7733		SERIAL NUM	BER(\$)				
	BACKGROUND:			•	-				
	approximatel The transist approximatel All transist	istors in a fl ly 0.5" long w tors contain ly 0.008" thic tors have mult ation in the S	vere sub a 5 RV ck. Con tiple be	mitted for 190 mil <sup>2</sup> c nections a nds in all	analysis hip mount re of alu	because ed on a m minum wir	of hermetici olybdenum he e, 10 mils i	ty prob at spre n diame	ader ter.
	INVESTIGATIO	<u>on:</u>					,		
	metal seal in dye penetrary the scanning to-metal seal All leads exaway from the lead. Check pull test ac from the pace		stors. enced 10 croscope lity of ment wit dicating of histo IL-STD-7 seconds. rts, sub	They were 10% failure 10% failure 10% failure 10 (Photos l 10 the glass 11 the glass 12 damage wa 13 damage wa 140, method 140, method 15 Reports	subjected. A clos- -5) demonin the fe to the se s almost e devices 2036, whalso indi	to a groer examing strated set through al glass certainly revealed ere a locate that	ss leak test ation of the evere damage hs seemed to (Photo 4) ir induced by they did ex lb weight is 100% failur	utilizedevicede to the period of the normal direction of a directi	ing s with glass- mal. ction on the e a ded 20
	CAUSE:	· · · · · · · · · · · · · · · · · · ·	• .		• •				
Company of Parish and State of	Insufficient tensioning i hermetic.	t metal-to-gla test, cracking	ass seal g the gl	integrity ass, and c	resulted ausing fa	in poor ilure of	resistance t the devices	to the l to rema	ead in
L	RECOMMENDAT	ION:							
	This TO-8 pa	ackage is not	recomme	ended for d	evices in	tended fo	or use in the	e aerosp	ace
ALY	SIS PERFORMED E	37			REPORT	APPROVED	BY		ر المراجع المر المراجع المراجع

Thin 2/10.78



# M MOTOROLA INC. Semiconductor Group

P.O. BOX 2953, PHOENIX, ARIZONA 85036

RELIABILITY AND QUALITY ASSURANCE GROUP

PRODUCT ANALYSIS REPORT NUMBER

PL-099\*034

PAGE

PREPARED FOR

REFERENCE

DEVICE TYPE SJ6708H

LOT NUMBER

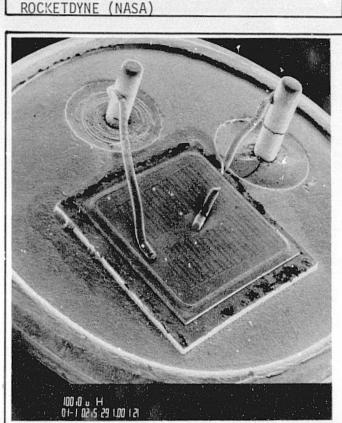


Photo 1. 10X

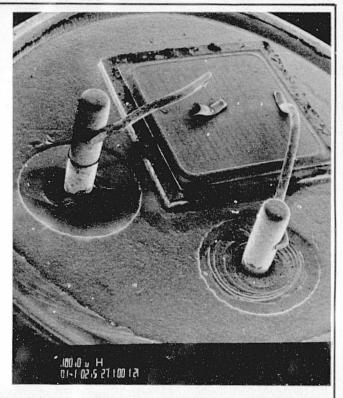


Photo 2. 10X

# ORIGINAL PAGE IS OF POOR QUALITY

Photos 1 - 6 SEM views of damaged glass in transistor Ser 035. The damage seen here is typical of all samples. The emitter wire has been cut to allow the emitter post to be pushed up. This transistor and all samples presented for analysis were gross leak rejects. Note cracking and spalling of glass.

# MOTOROLA INC. Semiconductor Group

P.O. BOX 2953, PHOENIX, ARIZONA 85036

RELIABILITY AND QUALITY ASSURANCE GROUP

PRODUCT ANALYSIS REPORT NUMBER

PL-099\*034

PAGE

OF

PREPARED FOR
ROCKETDYNE (NASA)

REFERENCE

DEVICE TYPE SJ6708H LOT NUMBER

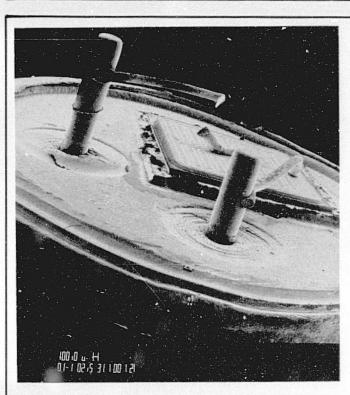
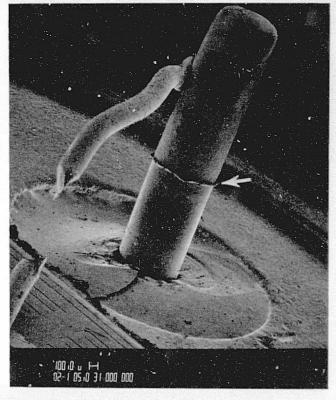
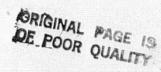


Photo 3. 10X



Close-up of emitter post. Note pushing of gold plating into tiny rolls, indicating tension applied to leads caused them to move within the glass.

Photo 4



# MOTOROLA INC. Semiconductor Group

P.O. BOX 2959, PHOENIX, ARIZONA 850 36

RELIABILITY AND QUALITY ASSURANCE GROUP

PRODUCT ANALYSIS REPORT NUMBER

PL-099\*034

PAGE

OF

PREPARED FOR	REFERENCE	DEVICE TYPE	LOT NUMBER
ROCKETDYNE (NASA)		SJ6708H	

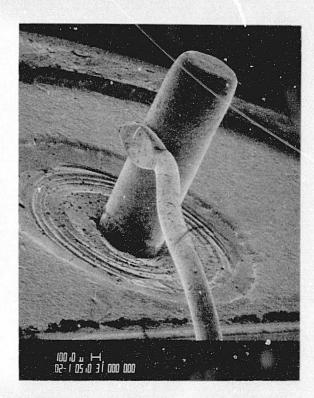


Photo 5 - Close-up of base post.

Note concentric spalling of glass, indicative of lead movement within seal area. All remanants of the meniscus are missing. (20X)



#### RELIABILITY AND QUALITY ASSURANCE DEPARTMENT

# PRODUCT ANALYSIS REPORT

, SPD 3547 R-2 (4/74)			#278		REPO	RT NOI	L-099*	031	
PREPARED FOR		REFEREN DS5		DEVICE 1		LOT N	IUMBER	CUSTO	MER PART NUMBER
	ERONAUTICS	Un	FAILURE loading		000 hr	s. op 1	ife		(JAA)
& SPACE AD	MIN.		or REJECT fe Lab 1						
R QUESTOR		TYPE OF	REQUEST						
June C.		FIEL	D ⊠ ⊦	REL QA	☐ REL	IABILITY.		RMR	□ OTHER
TOTAL FAILURES	QUANTITY RECEI	VED	LOT SIZE		SAMP	LE SIZE		ACCEP	TANCE LIMIT
2	1			8	1	41			-
PRODUCT CODE	DATE CODE(S)		SERIAL NUM	ABER(S)					
AACA/Loc.B	7733		13						**************************************

Device #13 was submitted on a N.O.D. following unloading. A preliminary electrical check proved the device to be good. A subsequent electrical check in the unloading area again proved the device to be good.

Cause for the N.O.D. at unloading is unknown at this time.

ALYSIS PERFORMED BY		REPORT APPROVED BY	
Best Dichemen	4-11-28	Tw Lec	JIAJR78



#### RELIABILITY AND QUALITY ASSURANCE DEPARTMENT

# PRODUCT ANALYSIS REPORT

i 1PD 3547 R-2 (4/74)		<i>#</i> 318	REPORT N	10. <u>PL-099</u>	*032
PREPARED FOR	REFERENC	E DEVICE 1	TYPE	LOT NUMBER	CUSTOMER PART NUMBER
	BS5238	SJ 670	8 H	LA 1	<u> </u>
	POINT OF	FAILURE	. ,		
NATIONAL AERONAUTICS	200	0 hr burn-in			
& SPACE ADMIN.	REASON FO	R REJECTION			
	#21	N.O.D. (E-B s	hort) #4	& #69 lim	it reje <u>c</u> t
R DUESTOR	TYPEOFR	EQUEST			<u></u>
June C.	☐ FIELD	区 EREL QA	☐ RELIAB	ILITY 📋	RMR DOTHER
T TAL FAILURES QUANTITY RECE	VED L	OT SIZE	SAMPLE	SIZE	ACCEPTANCE LIMIT
2 3		_		40 + 1	
PRODUCT CODE DATE CODE(S)	s	SERIAL NUMBER(S)			
AACA/Loc. F 7733		4, 21, 69			

#### **BACKGROUND:**

Three units were submitted after 2000 hours of op life testing. Unit 21 was reported as an E-B short at unloading. Units 4 and 69 were limit rejects on the post 2000 hour read out.

#### INVESTIGATION:

A parameter check found unit #4 to be good while units 21 and 69 were marginally low on hFE $_3$  (19.6, 19.4 - min 20).

Microscopic inspection of #21 after delidding and chemical etching disclosed no evidence of a failure mechanism that would cause an E-B short.

No further analysis was performed on unit #69.

#### CAUSE:

Unit #4 was found to be good.

Units 21 and 69 were marginally out of spec. and the failure mechanism is unknown at the present time.

But Dicher 4-11-78 REPORT APPROVED BY

SECTION E. TEST FACILITIES LIST 100 A 100

100

Takanath.

MOTOROLA, INC.

Semiconductor Products Division

Type Number: SJ6708H

Page

# TEST FACILITIES LIST

EECTRICAL  3061 3061 3064 990232 3061 3061 3061 3061 3061 306232 3061 3061 3061 3061 306232 3061 3061 3061 3061 306232 3061 3061 306232 3066 3066 3066 3066 3066 3066 30	MIL-STD-750	TEST STATION	MANTINACIONA	TYPE OR	ASSET	PARAMETER
3061   990232*   Lorlin   Impact 100   153426   IEBO   15041   15041   150426   15081   1508	TEST METHOD	IDENTITY	MANUFACTU	₹KK 1		PARAMETER
3061   990232*   Lorlin   Impact 100   153426   IEBO   15041   15041   150426   15081   1508	ET POTT TOAT					
3041 990232   Lorlin   Impact 100   153426   ICCD   3011 990232   Lorlin   Impact 100   153426   BVCES   3011 990232   Lorlin   Impact 100   153426   BVCES   3011 990232   Lorlin   Impact 100   153426   BVCES   3071 990232   Lorlin   Impact 100   153426   VEC(S)   3076 990232   Lorlin   Impact 100   153426   WEC(S)   3076 990232   Lorlin   Impact 100   Impact 100   Impact 100   3076 990232   Lorlin   Impact 100   Impact 100   3076 990232   Lorlin   Impact 100   Impact 100   3076 990233   Impact 100   Impact 100   3076 990230   Impact 100   Impact 100   3076 990230   Impact 100   Impact 100   3076 990230   Impact 100   3076   Impact 100						
3041 990232   Lorlin   Impact 100   153426   BVCB0   3011 990232   Lorlin   Impact 100   153426   BVCB0   3066 930232   Lorlin   Impact 100   153426   BVCB0   3071 990232   Lorlin   Impact 100   153426   BVCB0   3076 990232   Lorlin   Impact 100   153426   VCB(S)1   3076 990232   Lorlin   Impact 100   153426   VCB(S)1   3076 990232   Lorlin   Impact 100   153426   VCB(S)2   3076 990232   Lorlin   Impact 100   153426   VCB(S)2   3076 990232   Lorlin   Impact 100   153426   VCB(S)2   3076 990232   Lorlin   Impact 100   153426   WCB(S)2   3206 990005   Curve Tacer) (Curve Tacer) (Cotolin   S2000   Tektronix   S2   O79182   ton, toff & tf   3251						
3011 990232	·		<u> </u>			
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3066 990232   Lorlin   Impact 100   153426   VZE(S)1   VZE(S)2   VZE(S)1   V					1	E .
3071 990232   Lorlin   Impact 100   153426   VGE(8)1   3076   990232   Lorlin   Impact 100   153426   VGE(8)2   3076   990232   Lorlin   Impact 100   153426   VGE(8)2				· -		4
3066 '990232   Lorlin   Impact 100   153426   VEE(\$)2   3076   990232   Lorlin   Impact 100   153426   VEE(\$)2   VCE(\$)2   VCE(\$)3   VCE					,	
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3076 990232						
3076 990232 1			<b>.</b>		1	
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3076 3206 3206 390022 390005 (Curve Tracer) QC0308 (Plug-In) 3251 QC0449 (Oscilloscope) QC1203 (Generator) 3236 QC0336 (Generator) 3236 Q90223 (Generator) 3236 Q90228 (Therwal Resistance Tester) QC0449 (See Figure 2)  * Lorlin Multi Parameter Tester.						
3206 990005 (Curve Tracer) QC0308 (Plug-In)  3251 QC0449 (Oscilloscope) QC1203 (Generator) QC0306 (Generator) GO306 (Capacitance Limit Bridge) 990223 (Chapacitance Tester) QC0449 (See Figure 2)  3053 CoOd449 (See Figure 2)  * Lorlin Mult: Parameter Tester.			<b>a</b>		3	
Curve Tracer   QC0308		•	F .			4 8
3251   QC0308	5200		TERLIONIX	376	1/2120	nre
(Plug-In)	3251		Tektroniv	22	070102	1
3251 QC0449 (Oscilloscope) 3251 QC1203 (Generator) 3306 QC0336 (Generator) 3236 99Q223 (Capacitance Limit Bridge) 39151 Pestinal Resistance Tester) 3053 QC0449 (See Figure 2)  * Lorlin Multi Parameter Tester.  Tektronix 585 53855 ""  Hewlett 214A 129526 " Packard Hewlett 606A 154038 " Packard Boonton 77B-S1 84160 Cobo (Cobo (Cob	J292		TERCTOHIX	02	0/9102	
3251 QC0449 (Oscilloscope) QC1203 (Generator) QC0336 (Generator) QC0336 (Generator) Packard (Generator) Packard Boonton 77B-S1 84160 Cobo (Thermal Resistance Tester) OC0449 (See Figure 2)  * Lorlin Multi Parameter Tester.		(1108 111)	<b>!</b>		Į.	
Coscilloscope   QC1203	3251	000449	Tektronix	585	53855	
3251 QG1203 (Generator) QG0336 (Generator) QC0336 (Generator) Packard Hewlett Packard Boonton 77B-S1 84160 Cobo (Capacitance Limit Bridge) 990228 (Thermal Resistance Tester) QC0449 (See Figure 2)  * Lorlin Multi Parameter Tester.		l ' •		303	22022	1
CGenerator   QC0336	3251		Hewlett	2144	129526	"
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Generator   990223	3306			606A	154038	] "
3236 99Q223 (Capacitance Limit Bridge) 99Q228 (Thermal Resistance Tester) OC0449 (See Figure 2) * Lorlin Multi Parameter Tester.			3		23,030	1
(Capacitance Limit Bridge) 990228 (Thermal Resistance Tester) 0C0449 (See Figure 2)  * Lorlin Multi Parameter Tester.  Motorola H0-01 82278 H0-01 82278  # Lorlin Multi Parameter Tester.	3236			77B-S1	84160	Cobo
3151 99Q228 (Thermal Resistance Tester) 0C0449 (See Figure 2)  * Lorlin Mult1 Parameter Tester.  Motorola H0-01 82278 9JC  Tektronix 585 53855 ES/B				1		
3151 99Q228 (Thermal Resistance Tester) 0C0449 (See Figure 2)  * Lorlin Mult1 Parameter Tester.  Motorola H0-01 82278 9JC  Tektronix 585 53855 ES/B		Limit Bridge)	•			1 1
Resistance Tester) OC0449 (See Figure 2)  * Lorlin Multi Parameter Tester.	3151	99Q228	Motorola	HO-01	82278	0JC
Tester) OC0449 (See Figure 2)  * Lorlin Multi Parameter Tester.		(Thermal		j .		1
3053 OCO449 (See Figure 2) Tektronix 585 53855 ES/B  * Lorlin Multi Parameter Tester.		Resistance	•			
(See Figure 2)  * Lorlin Multi Parameter Tester.			į			1
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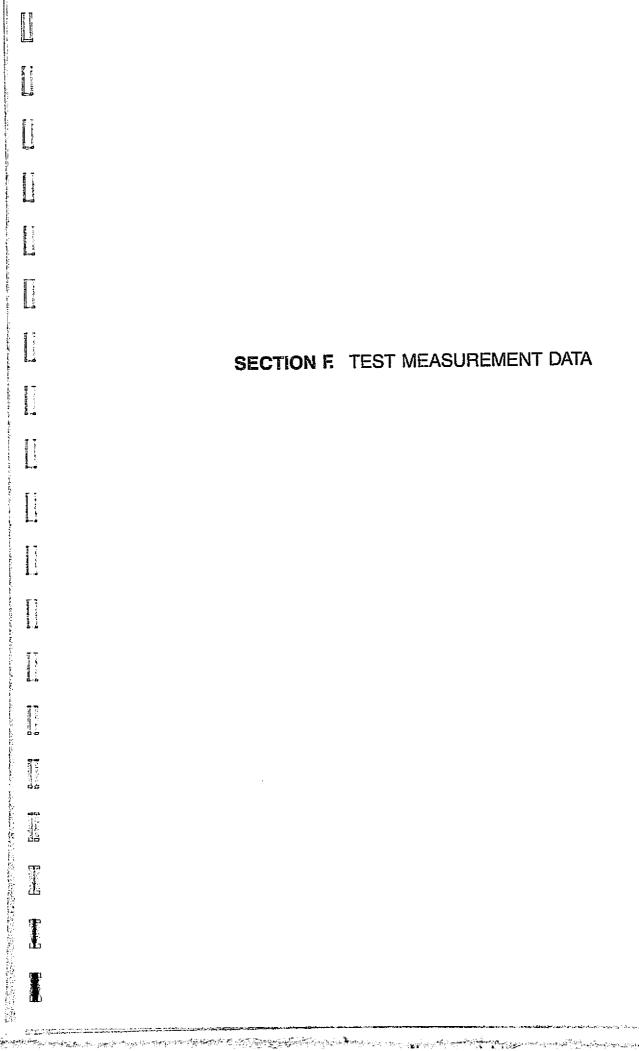
MOTOROLA, INC. Semiconductor Products Division Type Number: SJ6708H

Page

# TEST FACILITIES LIST

		JI F21	CILITIES LIST			
MIL-STD-750 TEST METI D	TEST STATION IDENTITY	•	MANUFACTURER	TYPE OR MODEL	ASSET NO.	
DIMENSIONAL	,			•		
2066	Guage		Motorola	66CSB54061	<i>‡</i> 8	ļ
2066	Calipers		Brown & Sharpe	579 <b>-</b> 1	4-542	
2000	~		Drown & Charpe	575 1	7 572	
ENVIRONMENTAL						
MIL-STD-202	Temp. Chamber		Blue M	WSP-109B-3	126676	
Method 107						
2006	Centrisafe		Triotech	G385-1B	142814	
1071	Bomb Station		Isovac Motorola	MKIV	144030	
2026 1056	Solder Dip Thermal Shock		Thermal Dynamics	2103	996931 177630	
2036.	Tension Tester		Hunter	CTM	82286	
1021	Moist. Resist.		Blue M	FR366PB	87004	
1041	Salt Chamber		Associated	SS-3-4	65536	
2016	Shock		Avco	SM005-2	78361	
2056	Vibration		Ling	CP5/6	70933	
2057	Vibration		Ling	CP5/6	70933	
LIFE TESTS		!	_			
1031	LT-2	`.	Blue M	POM-24	38907	
1027	(High Temp.		brue n	FUPI-24	36907	
	Chambers)					į
1026	LT-1		Motorola	C (Blue)		
	(Life Test		<u> </u>	(2227)		
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SPD 3259 R-1 (6/69)



# READOUT INDEX

100% Processin	g				
R.O.	#05	100%	Initial Electrical Inspection		
	#10	100%	Electrical Inspection,		
	•		Post Shock, Constant Acceleration and HTRB.		
	#15 100%		Pre-Burn In. Post Burn-In Electrical.		
		•			
en e					
		· .			
Group B					
Sub Group I - IV	#20 #30 #35	76 pc. 20 pc. 20 pc.	Group "B" initial Electrical. B-III End Pts. B-IV End Pts.		
Sub Group V	#40 #45 #50	20 + 3 20 + 2 20 + 2	High Temp. Life, 340 hrs. High Temp. Life, 670 hrs. High Temp. Life, 1000 hrs.		
Sub Group VI	#55	40 + 4	Steady State Operating Life Electrical Inspection.		
	#60	40 + 3	168 hrs. Steady State Operating Life. 340 hrs.		
	#65	40 + 3	Steady State Operating Life, 670 hrs.		
	#70	40 + 3	Steady State Operating Life. 1000 hrs.		
	#75	40 + 3	Steady State Operating Life, 1500 hrs.		
	#80	40 + 1	Steady State Operating Life, 2000 hrs.		

#### Readout Index Continued

Charles Control

Sub	group								
VII			#81		15	4:	2		Electrical Inspection, Post
									Power Cycling, 1000 cycles.
			#82		15	+	1		Power Cycling, 2000 cycles.
		9 1	#83		15	+	1		Power Cycling, 3000 cycles.
			#84		15	+	1		Power Cycling, 4000 cycles.
	**		#85		15	+	2		Electrical Inspection, Post
				•					Thermal Shock, 25 cycles.
			#86		15	+	2		Thermal Shock, 75 cycles.
			#87		15	+	2 :		Thermal Shock, 175 cycles.
	a Same		#88		15	+	2	4 T + 1	Thermal Shock, 300 cycles.
			#89		15	+	2		Thermal Shock, 500 cycles.
	•		#90	*	15	+	2		Sub group VII End points.

GACSOSOS MEASI	JREMENTS COVER SHEET	DATE GZZZIZYS PAG		
DEVICE = 5J6708		CONTROL # = OSSEBE	SAMPLE SIZE = 165	
		LOT = 001 READOUT = 05	# REJECTED = 4.24 %	
		PRIOR = NUNE TST CMPL = GENEONTO		
DESCRIPTION =	NPN PL-99.784 TEMP CYC CONST ACC HIGH TEM- REVERSE INITIAL TABLE 2	BIAS 48 HOURS		
PARAMETER CONDITION	S PARN # TEST #		REJECT CRITERIA	
IŒS I	IGE 100 IM AM	N = 0 UA C	LECT READING	MEAN = 1.2267391 UA 3 STD DEV = 10.972451 UA
BVCEO	≤00 ≥00 IM AM	N = 450. V u	ELECT READING	MEAN = 514.4050 V 3 STD DEV = 80.34104 V
BVCES	600 505 In	N = PG ( . V . 6	rLtCT READING	
wes 2	00÷ 50÷	X = 0		MEAN = 921.5565 V 2 STD DEV = 163.84707 V
	IM	N = 0 X = 1. V 0	LECT READING	MEAN = 134.46104 MV 3 STD DEV = 60.12247 MV
HFE 3	005 005 MI MA	N = 20.	ELECT READING	MEAN = 29.752166 : 3 STD DEV = 12.6813981 :
			35	
			3.	
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CE = 5	<b>J</b> 6708H	CONTRO	= 001			
		READOU	T = 05			
NIT	ICES 1	BVCETI	BVCES	VCES 2	HFE 3	
0001	644.0 NA	505. V	901.0 V	125.5 MV	31.0	
0002	1.0610 UA	545. V	859.5 V	185.0 MV	21.6	
C000	410.0 NA	510. V	860.5 V	129.5 MV	25.3	
4000	478.5 NA	490. V	863.5 V	125.5 MV	32.8	
0005	1.2745 UA 365.0 NA	540. V	963.5 V 984.5 V	176.0 MV 122.5 MV	28.4	
0007	461.5 NA	510 • V	907.0 V	116.0 MV	34.5 35.6	
8000	2.0045 UA	520. V	909.5 V	168.5 MV	25.4	
0009	1.7515 UA	500. V	934.5 V	133.5 MV	31.9	
0010	402.5 NA	5:0. V	977.5 V	193.0 MV	22.0	
0011	485.0 NA	10. V	875.5 V	155.5 MV	26.5	
012	722.5 NA	550 - V	974.5 V	157.0 MV	29.2	
0013	1.4935 UA	490 - V	879.5 V	136.5 MV	30.8	
0014 0015R	423.5 NA 434.5 NA	490 · V	883.5 V 910.0 V	115.0 MV 130.5 MV	33.8 4.88 *	
0016	385.0 NA	540 · V	1+0330 KV	125.0 MV	32.5	
00178	42.5 UA	620. V	682.0 V*	105.0 MV	23.0	AND ASSESSMENT OF THE PARTY OF
0018	487.0 NA	500 · V	946.0 V	115.0 MV	34.4	
0019	346.5 NA	540 . V	1.0135 KV	127.0 MV	33.3	
020	1.2155 UA	530 . V	975.5 V	116.0 MV	34.1	
0.	297.0 NA	530 • V	943.0 V	129.5 MV	25.5	
0.55	650-5 NA	500. V	893.5 V	122.5 MV	34.9	
023	543.5 NA 914.0 NA	490. V	903.5 V	130.0 MV 169.0 MV	31.5	
0024	399.0 NA	540. V	972.5 V	147.5 MV	31.5	
0026	373.5 NA	540. V	929.5 V	151.5 MV	27.9	
27	511.0 NA	490 - V	883.0 V	111.0 MV	34.5	
028	410.5 NA	560 . V	996.5 V	148.5 MV	24.3	
0029	1.7915 UA	580. V	895.5 V	147.0 MV	21.5	
0030	414.5 NA	540 · V	1.0290 KV	125.5 MV	32.9	
0031	741.5 NA	540. V	911.5 V	122.5 MV	33.3	
032	3:6.0 NA	5:0. V	935-5 V	147 • G MV	22.1	
033	1.9335 UA 1.7010 UA	490 . V	849.5 V	166.0 MV	26.7	
35	297.0 NA	510. V	952.5 V 996.5 V	137.0 MV 132.0 MV	31.3	
036	1.3755 UA	490. V	858.5 V	158.0 MV	27.0	4
37	357.5 NA	520. V	970.5 V	116.0 MV	34.9	ARTGINAL DE POOR
0038	278.5 NA	550. V	953.5 V	142.0 MV	24.5	而之
1039	512.5 NA	510. V	895.5 V	128.0 MV	29.9	_ 0
0040	511.5 NA	690 . V	875.5 V	113.0 MV	34.9	GINAL POOR
041	447.5 NA	490. V	896.0 V	121.5 MV	25.6	25
0042 0043R	353.0 NA 17.515 UA	530 · V	933.0 V 794.5 V*	130.5 MV 141.5 MV	25.0	29
0043R	582.5 NA	490. V	919.5 V	111.5 MV	28.5 36.4	7
045	852-5 NA	5.0. V	800.5 V	139.0 MV	26.9	A 3
0046	478.5 NA	490 . V	870.5 V	132.0 MV	26.4	2 3
0047	557.0 NA	500. V	992.0 V	128.0 MV	35.3	50
048	379.0 NA	5.10 . V	965.0 V	183.5 MV	32.2	<b>- - m</b>
0049	2.400 UA	490 . V	931.5 V	146.0 MV	31.4	PAGE IS QUALITY
•	434.5 NA	490 • V	671.5 V	125.5 MV	31.0	77

128.5 MV

19. 45 MV

150.0 MV

114.5 MV

160 .5 MV

150.0 MV

184.0 MV

149.0 MV

120.5 MV

150.5 MV

149.5 MV

124.0 MV

27.8

23.8

23.1

30.1

21.6

ches

27.0

21.5

26 . 1

25.9

31.1

20.9

990.0 V

923 at V

942.5 V

988.0 V

851 .5 V

934.0 V

937.5 V 963.5 V

895.0 V

881.0 V

987.5 V

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602.5 NA

3-0.0 MA

340.5 NA

446.5 NA

459.0 NA

454.5 NA

2.020 UA

417.0 NA

463.0 NA

3.305 UA

781.0 NA

370.5 NA

530 . V

500 . V

560 . V

520. V

550. V

540 . V

580 . V

490. V

200 . V

540 . V

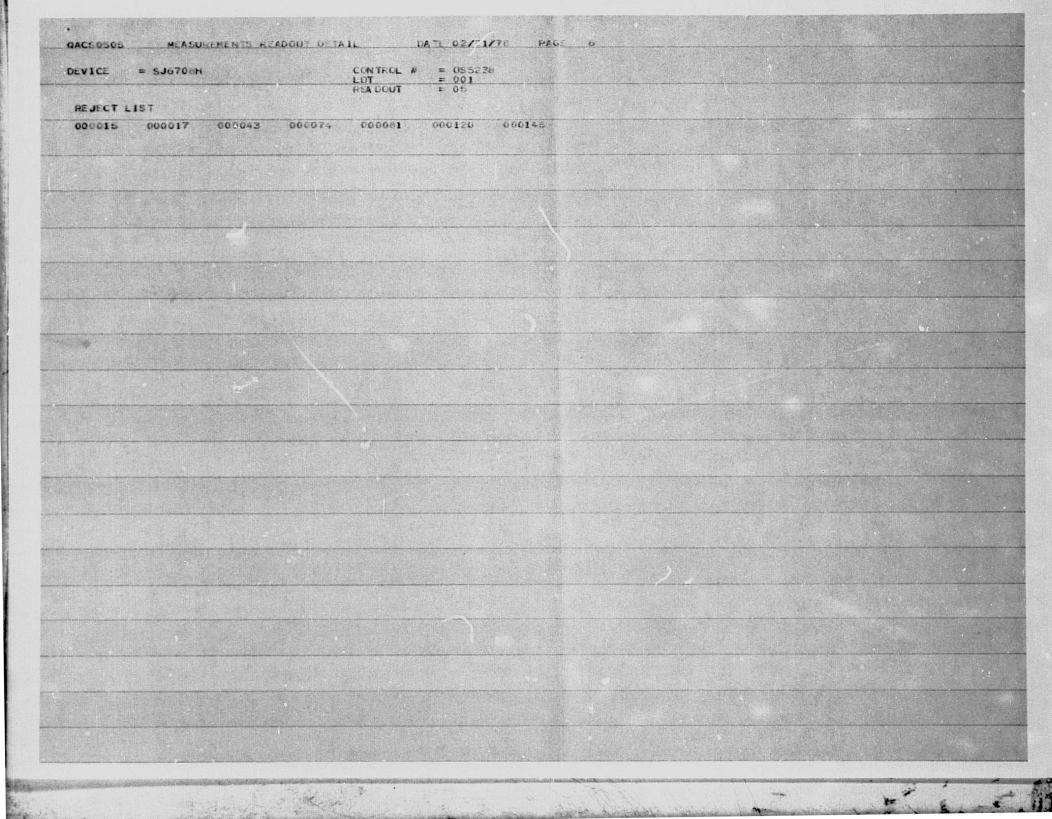
330 e

540 . V

EVICE	= SJ6708H	CONTRA	L # = 085238			
VICE	- SJOTCON	LOT	# = 001 # = 05			
		READUL	л = 05			
UneIT	TCES 1	BVCED	BVCES	VCES 8	HFE 3	
000101	308e5 NA				33.2	
000102	932.0 NA 414.5 NA	540 . V	980.0 V	212.0 MV	21.5	
000104	1.0505 UA	5:0. V	947.0 V 922.0 V	142.0 MV 120.0 MV	24.0	
000105	4 -5.25 115	-00 - V	901.0 V	165.0 MV	30.6	AND THE STREET, STREET
000106	4.525 UA 432.5 NA	500. V	901.0 V 975.5 V 619.5 V 911.0 V	165.0 MV 191.0 MV 123.0 MV	30.6 23.9 27.4 30.1	
000107	429.0 NA	505. V 500. V	619.5 V	123.0 MV	27.4	
000108	594.5 NA	500 . V	911.0 V	123.5 MV	30.1	
000109		340. V	915.5 V	135.5 MV	25.6	
000110	937.0 NA	520. V			28.9	
000111	636.5 NA 690.5 NA	540 - V	1.0040 KV	122.5 MV	28.E 30.3	
000112	690x5 NA	- 10 + V	961x0 V 914x0 V	134.0 MV 188.0 MV	20.3	
000113	530.5 NA	500. V 510. V 510. V 510. V	913.5 V	117.0 MV	31.9	
000115	40245 NA	510- V	871.5 V	125.5 MV	34.6 25.6	
000116	417.0 NA	490. V	884.0 V	IZZel MV	25.1	
000117	378.5 NA	530 * V	963.5 V 843.5 V	120.0 MV	34.2 29.6	
000118	640.0 NA	500. V	843.5 V			
000119	317.0 MA	120 * V	9.25.0 V	128.0 MV 130.5 MV	23.9	
000120R	381.0 NA	5.0. V		130 - MV	24.5	
000121	1.3015 UA 296.0 MA 1.1225 UA	490. V	861.5 V	185.0 MV 136.5 MV	24.4	
000122			991.5 V 975.5 V	181.5 MV	58.5	
000123	A 030 HA	-00 V	909.5 V	INC. MV	31.6	
000125	4.030 UA 426.5 NA 501.5 NA	500: V	869.5 V	125.0 MV	24.7 28.3 31.6 31.6 22.8 36.0	
000126	501.5 NA	540 × V	863.5 V	150.0 MV	22.8	
000127	417.0 NA	490. V	913.5 V	114.0 MV	30.0	
000128	378.5 NA	540 · V 490 · V 560 · V	969.0 V	THE PERSON NAMED IN CONTROL OF THE PERSON OF		
000129	929 <sub>*</sub> 0 NA	550 V 510 V	940-5 V	141 MV	31.7	
000130	357.5 NA	550 v	1.0015 KV		20.9	
000131	5.000 UA 480.0 NA	510. V	900.5 V 951.0 V	165.0 MV	30.4	<b>M</b> 2
000132	3.700 UA	10. 4	921.0 V		30.9	
000134	725.0 NA	510. V	982.5 V	124.5 MV	29.3	73
000135	490.0 NA	490. V	845.5 V		39.4	0 4
000136	507.0 NA	530 . V	901.0 V	136.0 MV	23.3	0,0
000137	714.0 NA	560 * V		160.5 MV 143.0 MV	24.0	
000138	453.5 NA	520. V	906.€ V	143.0 MV	30.0	
000139	365.0 NA	500 e V	986.b V	129.0 MV 119.0 MV	32.6	42
000140		520 · V	867.0 V	III S.U. MV	28.7	<b>4</b> 0
000141	414.5 NA 394.0 NA	530. V	1.0175 KV 991.5 V	120.8 MV	33.2	BARCHWA PAGE 13
000142	1.0690 UA	540 • V	953.0 V	ITO.O MV	21.3	
000144	343.5 NA	560 . V	1.0110 KV	143.0 MV	24.0	30
000145R	7.660 UA	500. V	754.0 V*	126.0 MV	31.0	
000146			1.0255 KV	ILL.S MV	34.1	
000147	429.0 NA	530 · V	911.5 V	120.5 MV	33.4	
000148	457.0 NA	520 . V	850.5 V	122.5 MV	27.4	
000152	500.5 NA	460 a V	809.5 V	124.0 MV	32.4	
000153	463.0 NA	470 * V	969.5 V	.128.5 MV	33.0	

EVICE = 8	H80f6L8	CONTROL LOT READOUT	= 001			
UNIT	ICES 1	EVCED	BVCES	VCES 2	HFE 3	di.
000154	460.5 NA	470. V	864.5 V	110.0 MV	34.5	
000155	501.5 NA	-70 · V	651.0 V	118.5 MV	28.8	
000156	500.5 NA	465. V	835.0 V	110.0 MV	32.9	
000157	560.5 NA	470 . V	836.5 V	121.0 MV	31.0	
000158	646.5 NA	465. V	508.5 V	119.5 MV	30.2	
000159	438.5 NA	470. V	891.5 V	110 .5 MV	34.1	
000160	700.0 NA	468. V	868.5 V	120.5 MV	32.2	
000161	2-125 UA	465 a V	644.5 V	130.0 MV	28.1	
000162	520.0 NA	475 + V	938.5 V	110 . 5 MV	37.0	
000163	469.0 NA	470 - V	646.5 Y	108.5 MV	33.1	
000164	470.5 NA	472. V	908.0 V	110.5 MV	35.0	
000165	662.5 NA	475 • V	845.5 V	153.0 MA	31.4	
000166	1.2290 UA	400. V	819.0 V	117.5 MV	30.4	
000167	569.0 NA	462. V	868.0 V	112.= MV	28.5	
000168	5.600 UA	475. V	883.0 V	146+5 MV	49.7	

OF POOR QUALITY



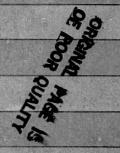
DACE 05.05 MEASUREMENTS READOUT DETAIL DATE 02/21/78 PAGE CUNTROL # = 055238 LOT = 001 READOUT = 05 DEV1CE = 5J6708H REJECT LIST ELECTRICAL REJECTS UNIT PARAM PAGE PARAM PAGE PARAM PAGE PARAM PAGE PARAM PAGE PARAM PAGE 000015 HFE 3 000017 BVCES 000043 BVCES 0-0074 BVCES 000081 BVCES 000120 BVCES 0-0145 BVCES

DEVICE	= SJ6708H	The same			CONTROL #	= 0552	38	SAMPLE SIZE = 160		
2.2				2,60	LOT	= 001		# REJECTS = 51		
34					READOUT	= 10		% REJECTED = 31.88	×	
- 3			1 70 4		PRIOR	= 05				
					TST CMPL	= 03/1	5/78			
DESCRIP		NPN PL-99 TEMP CYC HIGH TEMP END POINT	CONST	SE BI	AS 48 HOU	RS				
	ER CONDITIONS			•	LIMITS		# FAILURES	REJECT CRITERIA		
I Œ 51		001	001	MIN	Ī	50. UA	0 24	ELECT READING	MEAN = 3 STD DEV =	7.676647 U/ 34.20247 U/
TŒS1	æγ	001	001	PARM MIN MAX	# 1 = 00 = =	1 PARM # -20. UA 20. UA	2 = 001 0 45	CALC # = 21 DELTA DEPENDENT CODE 1	MEAN = 3 STD DEV =	2.7118894 U/ 14.633700 W
ICES1	(x)	001	001	PARM MIN MAX		1 PARM #	2 = 001	X DELTA CODE 3	MEAN =	26.268356 1 110.06872
				MAA		100. A	101	DEPENDENT CODE 3	3 SID DEV =	110.05872
BVCEO		002	002	MIN MAX	Ē 111		8	ELECT READING	MEAN = 3 STD DEV =	541.0061 431.7094
BVCES		003	003	MIN XAM			ů o	ELECT READING	MEAN = 3 STD DEV =	854.0749 406.0124
/ŒS 2		004	004	MIN		1. V	00	ELECT READING	MEAN = 3 STD DEV =	139.78147 M 61.82649 M
1FE3	San All Marine	005	005		-	20.	14	ELECT READING	MEAN = 3 STD DEV =	27-833450 11-456213
IFE3	<b>(%)</b>	005	005	PARM MIN MAX	# 1 = 00 = =	5 PARM # -20. % 20. %	2 = 005 15	TALC # = 22	MEAN = 3 STD DEV =	-6.222183 14.550642
									As	
		<b>有话诗性</b>		11	E 19 50 E				2	

× ...

VICE = S	:J6708Н	CONTROL LOT READOUT	= 001				The state
UNIT	ICES1	1CES1(0)	1CES1(%)	BVCEO	BVCES	VCES 2	HFE3
000001	2.020 UA	1.3760 UA	213.00 %*	500. V	908-5 V	133.5 MV	27.9
000002R	169.60 UA*	168-5390 UA*	15.800 K%*	750. V	500.0 V	189.5 MV	16.63
000003	1.9720 UA	1.5560 UA 13.6815 UA	374.00 X* 2.8500 KX*	500. V	791.5 V 893.0 V	133.0 MV	24.1
000005	17. 60 UA.	16.4855 UA	1.2900 K%*	520. V	893.0 V 747.5 V	128.5 MV	27.5
000006R	36.80 UA	36.4350 UA+	9.9800 K%*	535. V	1.0075 KV	125.0 MV	30.2
000007	496.5 NA	35.0 NA	7.5800 %	500. V	967.5 V	122.0 MV	33.1
800000	4.350 UA	2.3455 UA	117.00 X#	505. V	859.5 V	199.0 MV	23.3
000009	1.4035 UA	-348.0 NA	-19.800 X	490. V	949.5 V	140.0 MV	30.0
000010R	256.0 UA*	255.5975 UA*	63.500 K*#	675. V	567.5 V	187.5 MV	19.15
000011	922.5 NA	437.5 NA	90.200 X	500. V	937.5 V	162.5 MV	25.2
000012	1.5520 UA 1.8905 UA	829.5 NA 397.0 NA	114.00 **	535. V	. 943.5 V	166.0 MV	27.5
000014	545.0 NA	121.5 NA	26.500 X 28.600 X	480. V	903.5 V 815.5 V	154.0 MV 118.5 MV	24.9
000015R	1.4020 UA	967.5 NA	222.00 %*	485. V	831.5 V	138.0 MV	29.2
000016	410.0 NA	25.0 NA	6.4900 %	530. V	1.0175 KV	131.0 MV	30.0
000018	589.5 NA	162.5 NA	38.000 %	490. V	955.5 V	120.5 MV	32.2
000019	503.5 NA	157.0 NA	45.300 %	525. V	959.5 V	130.5 MV	31.7
000020	1.2155 UA	O. PA	0. PX	515. V	935.5 V	125.5 MV	31.7
0000021	567.0 NA	290.0 NA	97.600 %	510. V	863.5 V	133.0 MV	24.3
000022R 000023	27.10 UA 1.2590 UA	26.4495 UA* 715.5 NA	4.0600 K%* 131.00 %*	475. V	858.0 V	119.5 MV	32.8
000024R	82.40 UA*	81 -4860 UA*	8.9100 KX#	480. V	899.5 V 660.5 V	136.0 MV	29.5
000025	612.5 NA	213.5 NA	53.500 X	530. V	943.5 V	181.5 MV 145.0 MV	21.1
000026	943.0 NA	569-5 NA	152.00 2*	535. V	911.5 V	157.0 MV	26.0
000027	781.0 NA	270.0 NA	52.800 X	480. V	791.5 V	116.0 MV	31.9
000028R	44.80 UA	44.3895 UA#	10.800 KX*	950. V	917.0 V	154.5 MV	19.32
000029R	57.40 UA*	55.6085 UA*	3.1000 K##	900. V	787.5 V	164.0 MY	16.90
000030	548.0 NA	133.5 NA	32.200 %	530. V	975.5 V	131.5 MV	30.8
000031 000032R	13.560 UA	12.8185 UA	1.7200 KX+	520. V	715.5 V	129.0 MV	31.6
000033	30.75 UA 5.605 UA	30.3940 UA# 3.6715 UA	8.5300 K%* 189.00 %*	535. V	719.5 V	153.5 MV	21.1
000034	1.3725 UA	-328.5 NA	-19.300 X	475. V	843.5 V 954.5 V	169.5 MV 141.5 MV	26.4
000035	480.0 NA	183.0 NA	61.600 %	525. V	831.5 V	138.0 MV	24.5
000036	8.255 UA	6.8795 UA	500.00 X*	480. V	767.5 V	164.0 MV	25.6
000037R	57.60 UA*	57.2425 UA#	16.000 K##	510. V	840.5 V	121.5 MV	32.9
000038	900.0 NA	627.5 NA	225.00 **	540. V	879.5 V	133.0 MV	27.8
000039R	362.5 NA	-150.0 NA	-29-200 %	500. V	959.5 V	145.5 MV	23.2
000040	640.5 NA	129.0 NA	25.200 %	480. V	847.5 V	121.5 MV	32.3
000041	409.0 NA 474.5 NA	-38.5 NA	-8.6000 x	480. V	900.0 V	126.5 MV	24.0
000044R	202.0 UA*	121.5 NA 201.4175 UA#	34.400 % 34.500 K%*	515. V	927.5 V 570.5 V	136.5 MV	23.7
000045R	34.00 UA	33.1475 UA*	3.6800 KX*	485. V	859.5 V	113.5 MV	31.0
000046	539.5 NA	61.0 NA	12.700 %	480. V	807.5 V	153.5 MV 139.0 MV	21.2
000047R	28.15 UA	27.5930 UA*	4.9500 KX*	465.	843.0 V	133.0 MV	33.3
000u48	406.5 NA	27.6 NA	7.2500 %	520. V	895.5 V	131.5 MV	29.8
000049	1.0715 UA	-1.3285 HA	-55.300 %	480. V	943.5 V	152.0 MV	30.2
000050	578.0 NA	143.5 NA	33.000 %	480. V	927.5 V	131.0 MV	29.7
000051	458.0 NA	AN COLL	-5.6600 %	485. V	944.5 V	130.5 MV	30.2
000052	395.0 NA	-58.0 NA	-12.800 %	495. V	927.5 V	118.5 MV	32.8

MEASUREMENTS READOUT DETAIL DATE 03/16/78 PAGE



35.9	122.6 MV	V 2.787	A *015	* 00£.52	AV 2.643	1 • eooo ov	*0100
22.4	AW O'OSE	V 2.5A2	V .054	40.200 KX*	*YN 9999*161	*AU 0.591	REOLOG
* 50 BT	SII S WY	A 9.665	V .068	16.300 K*#	\$4U 0899.52I	*AU 00.E31	OIOSK
30.9	VM 0.051	V 8.729	V .088	192.00 x*	AN 0.505	AU 2070.1	TOTO
24.3	AM S.EEI	۸ 0.096	A *029	2.8200 KX*	AU 20%+.01	AU 038.01	00100
26.0	AM 0.051	V 8.667	V .008	6.4500 KX#	*AU 0214.03	*AU 05.12	866 000
\$ 85.64	VM 2.651	V 0.559	000° A	** 00.055	AU OYS.8	AU STE-II	886000
* 15.71	157°2 WA	V 2.158	V .078	2*0800 KX*	*AU 0582.6S *AU 0755.3S	AU 08.02	976000
22.1	AW START	V 6.129	A *056	*x 00°172		AU 00848	896000
5.05	AN OFFI	V 2,618	720. V	12*300 K**	*AU 3346,98	*40 02.07	96000 86000
# 99°4T	10+0 MA	V 2.20Y	V .077	15.400 KX#	*AU 01+1.7c	*VO 09*15	HE6000
* . CE	AM C-IEI	V 2.178	A *00G	** 00°E*E	AU CEEC. I	AU 050.1	26900
2.15	AN C. SCI	A 0.659	V . cap	*** 008*15	*40 5659.801	**** 08******	H16000
55.1	AW C"PCT	V 2.759	A *9+9	313.00 X4	AU <5 50. I	AU 6705.1	06000
6.55	AW 0*651	V 2.586	A 2005	1.8700 KX#	AU CYIE.II	AU 050.11	68300
5.55	TRI O MA	A 9"16L	A *009	** 00.072	AU DEIE. 8	AU 845.8	A88000
22.6	T#0°2 WA	V 2.598	V .008	S*1000 KX*	AU 0186.71	Vn S17*91	818000
0.05	126.0 MV	A 9°516	A *919	*% 00 · 191	VN 5.649	AU BBTO.I	98000
8.95	116.5 MV	A 9°696	V .058	**X 0057.6	AU 2582. ZI	AU 268.81	58000
27.6	VM 0.811	V 0.E88	V .005	10*900 KX#	*AU 8451.08	*AU 05.18	948000
E.03	AM Gott	V 2.858	V .368	6*2900 KX*	*AU 8045.85	AU 08.65	968000
6.63	VM 0.0+1	V 0.450	V ,264	× 809.72	AN 6.888	AU 020.5	58000
31.6	TSO.O MV	V 0.859	V .20A	*X 00.4%E	AU 0052-1	AU 2 997.1	08000
5.35 S.13	125.0 MV	A 9°998 A 9°196	A OIS	SS-200 %*	AU 2410.1	AU 205.S	62000
6.45	VM 0.231	V 2.749	V .008	313.00 %	AU 0015.1	AU 0500.1	87.000
2.SE	AM 5.611	A 9.566	A *CR5	% 0020°5	AU 0015.1	AN 0.152	22,000
54.1	AM 0. PEI	V 2.158	A *coc	539.00 X*	AN 0.506	AU 0085.1	54000
59.65	AM 0.741	V 6.508	A *ccc	x 008*69	AN 6.685	AN 0.501	£700
R-12	AN COUNT	A 9°5/6	A *05G	x 000.89	AN 6.855	AN 2.613	52000
52.9	ISO P WA	V 0.509	A *009	1*II co Kx*	AU 3518.9	AU OTE.8	12000
6.05	AM C.EEL	V 2.158	V .674	** 00°ES9	AU 2078.S	AU OIE.E	02000
8-65	142.5 MV	A 9°E06	A *029	z 008°16	AN 0.435	AN 8.028	69000
1.55	AW 0°6TI	V 2.019	V ,034	% 0084.T-	AM 6.15-	AN 2.685	89000
4.EE	152.0 MV	V 2.708	V .008	X 000.78	AN 3.910	AU 2034.1	19000
8.65	AM G. SEI	1.0075 KV	A *989	× 001.00	AN O.PEI	AN 8.782	99000
\$. BS	171.0 MV	V 3.548	V .003	% 004.13-	AU GES. I-	AU 013.2	99000
7.15	AM 0.4St	V 0.789	V .038	*% 00.64I	AN G. AEG	AN 8.500	99000
55.0	VM C.EYI	V 2.158	A *0+9	*X 00.536	AU 2646.S	AU 20E.E	69000
8.05 8.1S	137.0 MV	V 0.858	V .088	3*4300 KX#	*AU 0105.14	AU 04.54	879300
6.05	ISA°S WA	A 3°616	A •055	1*3000 KX*	AU 0889.7	AU 085.T AN 0.ET8	09000
4.05	150°2 WA	A 9*946	A *819	P-1100 KX#	*AU 8168.05	AU 05.15	869000
50.5	AN 0-811	A G.85	× .052	431.700 KX#	*AM 0983-77.1	*AM 357.1	888000
54.6	AW 0*921	A 5.859	A *015	56*800 KX+	*AU 08#5.201	*V0 09*301	872000
9.66	AW 0.011	A G.888	A *005	** 00°261	AN 0.658	AU 0845.1	9500
6.63	140.0 W	V 2.538	V .cse	23.400 x	VN 3 99	AN 0.10E	5000
83.88	AM G. TST	A 5.728	A *01.5	x 005-61	AN 0.82	AN 8.504	#9 700
5°0£	TSS.O.MV	A 9°568	A *019	2 000.50	AN 0.50+	AN G.IEB	ESODO
EBH	ACER 5	BACES	BACED	10551(%)	(d)19301	15301	1110
				ot =	TUOGASA		
				= 0001	TOT	uen or	c
		HE TO STATE OF THE		# = 05553B	CONTROL	H8078L	ICE = 2'

DEVICE	= SJ6708H	CONTROL LOT READOUT	= 001				
UNIT	ICES1	(CES1(D)	ICES1(X)	BYCED	BVCES	VCES 2	HFE3
000105	2.145 UA	-2.380 UA	-52.500 %	490. V	931.0 V	168.5 MV	29.9
000106	2.165 UA	1.7325 UA	400.00 X#	535. V	855.5 V	199.0 MV 130.5 MV	22.5
000107R	60.80 UA*	60.3710 UA# -76.0 NA	14.000 K%* -12.700 %	490. V 485. V	665.5 V 917.5 V	128.0 MV	28.4
000108 000109K	518.5 NA 140.80 UA*	140.4230 UA*	37.200 K%*	525. V	620.0 V	141.5 MV	23.8
000110R	24.90 UA	23.9630 UA*	2.5500 K%*	460e V	915.0 V	130.5 MV	25.3
000111		T DECE MA	480.00 %*	260. V	995.0 V	128.5 MV	25.6
000112R	76.90 UA#	76-1005 1144	11.000 K##	450. V	859.5 V	141.5 MV	23.5
000113	776.0 NA	-45.0 NA	-5.4800 X	485. V	931.5 V	133.0 MV	30.3
000114	506-0 NA	-24.5 NA	-4.6100 X	500. V	971.5 V	121.0 MV	32.1 24.5
000115	406.5 NA	-45.0 NA -24.5 NA -4.0 NA 33.0 NA	993.00 MX 7.9100 X	495. V	887.5 V 882.5 V	131.0 MV 128.5 MV	23.7
000116	450.0 NA 7.895 UA	7.5165 UA	1.9800 K**	520. V	975.5 V	126.0 MV	29.9
000118	1.0225 UA	374.5 NA	57-700 2	495. V	914.5 V	143.0 MV	2002
000119R	70.40 UA*	70.0830 UA#	22.100 KX*	505. V	663.5 V	133.5 MV	22.8
000120	379.0 NA	-2.0 NA	-524.00 M%	505. V	911.5 V	134.0 MV	23.6
000121R	30.00 UA	28.6985 UA*	2.2000 K%#	800. V	800.0 V	192.0 MV	19.78 *
000122R	40.80 UA	40 .5040 UA*	13.600 KX#	940. V	938.5 Y	142.5 MV	19.96 *
000123	3.285 UA	2.1625 UA	192.00 x*	525. V	941.5 V 920.0 V	186.5 MV 163.5 MV	30.1
000124	2.65D UA 1.1610 UA	-1.380 UA	172.00 %*	495. V	927.5	130.5 MV	30.0
000125 000126R	331.0 UA*	330.4985 UA*	65.900 KX*	675. V	425.5 V	155.5 MV	18.74 *
000127	5-160 UA	4.7430 UA	1.1300 KX#	475. V	887.5 V	121.5 MV	32.5
000128R	20.60 UA	4.7430 UA 20.4215 UA#	5.3900 K%*	525. V	971.5 V	143.5 MV	20.4
C 20129	1.2900 UA	361.0 NA 149.0 NA	38.800 %	480. V	935.5 V	145.5 MV	30.0
00130	1.1065 UA	749.0 NA	209.00 %*	540. V	935.5 V	140.5 MV	29.1
000131R	18.690 UA	13.030 UA	230.00 %*	950. V	866.5 V 912.0 V	177.5 MV	17.88 * , 26.3
000132	18.740 UA	18.2600 UA -115. NA	3.8000 KX*	460. V	857.5 V	159.0 MV	29.6
000133	3.585 UA 20.40 UA	19.6750 UA	2.7100 KX*	500. V	768.0 V	133.0 MV	24.4
000135	1.2695 UA	779.5 NA	159.00 %*	400. V	861.5 V	128.5 MV	29.0
J00136R	28.00 UA	27.4930 UA#	5.4200 KX*	900. V	893.5 V	139.0 MV	20.3
005137	17.370 UA	16.6560 UA	2.3300 KX*	510. V	960.0 V	172.5 MV	20.1
000138	2.325 UA	1.8715 UA	412.00 X#	515. V	949.5 V	153.0 MV	26.2
000139	632.0 NA	267.0 NA	75.100 X	515. V	1.0075 KV 929.0 V	134.0 MV 128.5 MV	30.4
000140R	24.00 UA	23.6060 UA*	5.9900 K%*	480. V	767.5 V	128.0 MV	30.0
000141R J00142	63.40 UA* 565.5 NA	62.9855 UA* 171.5 NA	43.500 X	515. V	999.5 V	123.5 MV	32.8
000143R	676.0 UA*	674.9310 UA*	63.100 KX+	540. V	150.5 V	179.5 MV	10.63 *
000144R	51.20 UA*	50.8565 UA*	14.800 KX+	880. V	733.5 V	145.5 MV	19.62 *
000146	745.0 NA	92.0 MA	14.000 x	520. V	991.5 V	129.5 MV	31.7
000147	1.5975 UA	92.0 NA 1.1685 UA	272.00 X¥	520. V	943.5 V	126.0 MV	30-6
060148	1.5680 UA	1.1110 UA	243.00 X*	508. V	795.5 V	130.0 MV	25.7
000152	17.4-0 UA	16.9395 UA	3.3800 K#*	C. V	935.0 V	123.5 MY	27.5
000153R	71.10 UA*	70.6370 UA* 215.5 NA	15.200 KX* 45.900 %	540. V	758.5 V 899.5 V	127.0 MV 115.5 MV	33.1
000154	684.0 NA 754.0 NA	252.5 NA	50.300 X	480. V	871.5 V	128.5 MV	24.9
000155	11.300 UA	10.7995 UA	2.1500 K**	470. V	806.0 V	119.5 MV	31.9
000157	1.1355 UA	575.0 NA	102.00 **	470. V	876.5 V	124.5 MV	30.7

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Signification Sections Section Sec

EVICE = S.	<b>J67</b> 08H	CONTROL	# = OS5238 = 001 = 10				
UNIT	ICES1	ICESI(D)	ICESI(%)	BVCEO	BVCES	vces 2	HFE3
Ct.0159 CC0165R OFC161R OFC163 CC0163 CC0163 CC0165 OC0165 OC0165 OC0165R	745.0 NA 736.0 NA 736.0 NA 7.740 UA 9.630 UA	256.0 NA 259.5 NA 7:0775 NA 8:4610 NA 33:0310 NA*	1.7800 KX* 4.0500 KX* 1.6600 KX* 75.700 % 52.300 % 1.0600 KX* 683.00 % 5.8000 KX* 482.00 X*	470. V 560. V 0. V 470. V 480. V 480. V 800. V 820. V	903.5 V 862.0 V 806.5 V 949.5 V 887.5 V 921.0 V 881.5 V 848.0 V 775.5 V 829.5 V	110.0 MV 119.0 MV 130.5 MV 114.5 MV 112.0 MV 112.5 MV 120.5 MV 117.0 MV 112.5 MV	32.0 28.7 23.2 35.5 31.2 33.4 29.8 27.3 28.1 20.8
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EVICE =	sJ6708H	CONTROL # = 055238				
ONIT	HFE3(%)	READOUT = 10				
000002R 000003	-10.000 % -23.000 % -4.7400 %					
000004	-16-100 % -2-4600 %		CARL THERE			
000006R 000007	-12.400 x -7.0800 x	<b>在其他的一种</b>				
000008 000009 000010R	-8.2600 % -5.9500 % -12.900 %					
000011	-4.9000 x -5.8200 x					
000013	-19.100 % -5.9100 %					
000015R 000016	498.00 X* -7.6900 X					
000019	-6.3900 x -4.8000 x -7.0300 x					
000021 000022R	-4.7000 # -6.0100 #					
000023 000024R	-6.3400 % -9.4400 %					
000025 000026 000027	-5.0700 X -6.8100 X -7.5300 X					(CAS PROCESSES ASSESSES
000028R 000029R	-20.400 %* -21.100 %*					. 19/39
000030	-6.3800 % -5.1000 %					
000032R 010033 000034	-4.5200 % -1.1200 % -4.1500 %					
000035	-6.1300 %					
000037R 000038	-5.7300 X 13.400 X					
000039R 000040 000041	-22.400 %* -7.4400 %				$\setminus$	
000042 000044R	-6.2500 X -5.2000 X -19.200 X					
000045R 000046	-21.100 %* -6.0600 %				$\langle \cdot \rangle$	
000047R 000048	-7.4500 %					
000049 000050 000051	-3.8200 % -4.1900 % -5.3200 %					
000052	-6.5500 X				\ <b>•</b>	. ∳:
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VICE = :	SJ6708H	CONTROL # = 055238			
UNIT	HFE3(%)	ADDUT = 10			
000/653	-6.6400 X			THE RESERVE TO THE PARTY OF THE PARTY.	
000055	-6.0400 X				
000056 000057R	-6.8600 X -7.5100 X		Activities and the second		
000058R 000059R	-7,5100 % -20.680 %* -15.700 %				TAX TO THE REST
000060	-7.3300 %				
000061 000062R	-4.9300 % -21.800 %*				
000063	-6.7100 X				
000065	-7.0306 X				
000067	-6.2800 X -5.9100 X				
000068	-5.6900 % -6.6600 %				
000070	-3.1300 X -7.5600 X				
000072	-6.0800 %				
000073	-6.6200 % -5.8500 %			09	
000076	-5.7900 % -7.4300 %			73	
000078	-6.1000 X			POGNA	
000079	-7.3500 % -4.4700 %			83	+
000082 000083R	-16.400 %			7	
000084R 000085	-22.900 X* -17.400 X			QUALITY IS	
000086	-9.0900 %			59	
000087R 000086R	-23.100 x* -20.960 x*			5.	
0000090	-17.600 % -7.1400 %			20	
000091R 000092	-8.2200 X -7.4700 X	*			
000093R	-18.200 %				
000094R 000095	-16.800 % -18.100 %	CASE COMPANY OF THE PROPERTY O			
000096R	-18.560 % -13.460 %		The second secon		
000097R 000098R	-28.600 X* -16.300 X				
000100	-9.6600 %				
000101 C:0102R	-6.9200 X -16.000 X				
000103R 000104	-6.6600 X -6.0000 X				
		N. All Martine Land and the land of the land			
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UNIT 000105 000106 00107R 000108 000109R 000110R	HFE3(%)	READOUT = 10		
000106 000107R 000108 000109R 000110R				
00 1078 00 108 000109R 000110R	-5.8500 %	THE STATE OF THE S		
000109R 000110R	-5.1000 %			
	-5.6400 % -7.7500 %			
	-12.400 % -9.2100 %			
000112R 000113	-22.400 %*			
000114	-5.0100 X -7.2200 X			
000115	-5.0300 X -5.5700 X			
000117	-12.500 X -11.400 X			
000119R 000120	-4.6000 %			
000121R	-18.200 %	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.		
000122R 000123	-19.100 X -4.2400 X		•	
000124	-4.7400 X			
000126R 000127	-17.800 %			
000128R	-9.7200 X -10.900 X			
000129	-5.3600 x -7.0200 x			
000131R 000132	-33.500 X* -13.400 X			
000133	-4.2000 x			
000134	-16.700 X			28
000136R 000137	-21.000 %* -16.200 %	The state of the s		
000138	-12.600 X			70.2
000140R	-12.800 %			33
000141R 000142	-9.6300 X -6.8100 X			0.7
000143R 000144R	-12.500 X -18.200 X			23
000146 000147	-7.0300 x -6.3800 x			2#
000148	-6.2000 *			4
000152 000153R	-15.100 X -11.200 Z			40
000154	-4.0500 % -13.500 %			
000156	-3.0300 X -967.00 MX			
000158	-4.3000 x			
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EVICE = S	J6708H	CONTROL # = 055238 LOT # 001 READOUT = 10			
UNIT	HFE3(X)				
000159 000160R 000161R	-4.3900 % -10.800 % -17.400 %				
000163 000164	-10.850 % -17.400 % -1.0500 % -5.7400 % -4.5700 %			•	
000165 000166	-5.0900 % -10.100 % -15.600 % -27.000 %*		$\mathcal{O}$		
000168R	-27.000 %*				
		*			
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EVICE.	= SJ6708H			LOT READOUT	= 05523 = 001 = 10						1. 1. 1. T. 1.	
REJECT L							000029	000038	000037	000039	000044	000045
000002 000047 000097 000128	000006 000057 000098 000131	000 010 000 058 000 099 000 136	000015 000059 000102 000140	000022 000062 000103 000141	000024 000083 000107 000143	000084 000109 000144	000087 000110 000153	000088 000112 000160	000091 000119 000161	000093 000121 000167	000094 000122 000168	000159
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REJECT LIST  ELECTRICAL REJECTS  UNIT PARAM PAGE  000002 ICES1 2 0000 24 ICES1 2 0000 24 ICES1 2 0000 28 HFE3 2 0000037 ICES1 2 0000037 ICES1 2 0000037 ICES1 2 0000037 ICES1 3	PARAM PA			16							e*
UNIT PARAM PAGE  000002 ICES1 2 0000 10 ICES1 2 0000 24 ICES1 2 0000 28 MFE3 2 000029 ICES1 2 000037 ICES1 2 000044 ICES1 2	HFE3	IGE PAR									
000002 ICES1 2 000010 ICES1 2 000024 ICES1 2 000028 HF63 2 000029 ICES1 2 0000037 ICES1 2	HFE3		AM PAGE	PARAM	PAGE	PARAM	PAGE	PARAM I	PAGE		1.
0 00 10 ICES1 2 0000 24 ICES1 2 0000 28 HFE3 2 0000 29 ICES1 2 0000 037 ICES1 2	HFE3	2									
000029 ICES1 2 000037 ICES1 2 000044 ICES1 2		2									
000044 ICES1 2	HFE3	2						N. C. State			
								A PARTY			
000058 ICES1 3											
000091 ICES1 3 000093 ICES1 3	HFE3	3									
000194 ICES1 3 000096 HFE3 2		1									
000098 HFE3 3											
000102 ICES1 3 000103 ICES1 3	HFE3	3						,			
000107 ICES1 4											21
000112 ICES1 4 000119 ICES1 4				4						吊五	
000121 HFE3 4										72	_
0: 0126 ICES1 4	HFE3	•								POOR	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
000141 ICES1 4	HFE3								4		
000143 ICES1 4	HFE3	•			1			THE RESERVE		23	
000153 ICES1 4						$\cdot \setminus$				是	
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000002 ICES1 2					II.						<b>在公室设施</b>
000006 ICES1 2		•									
000022 ICES1 2											
000028 ICES1 2											
000032 ICES1 2 000037 ICES1 2						1. 139				yar yarafi se	<b>对于</b>
000044 ICES1 2 000045 ICES1 2											
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DEVICE = SJ6708H			CONTROL #	= 055238 = 001					
REJECT LIST			READOUT	7.17			•		
UNIT PARAM PAGE	PARAM	PAGE	PARAM PAGE	PARAM PAGE	PARAM PAGE	PARAM	PAGE		
000093 ICES1 3									
000094 ICES1 3									
000097 ICES1 3									
000102 ICES1 3				MILE PROPERTY OF			•		
000107 ICES1 4									
000110 ICES1 4									
000119 ICES1 4 000121 ICES1 4 000122 ICES1 4									
000126 ICES1 4 000126 ICES1 4									
000136 ICES1 4									
000141 1CES1 4									
000144 ICES1 4									
000160 ICES1 5									
000167 ICES1 5								- 5 S. P 10 S 1	
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00024 ICES1 2	HFE3	6						_8≝	
000029 ICES1 2	HFE3	6						POOR POOR	
000037 ICES1 2 000039 HFE3 6						Ball Land			
000044 ICES1 2	HFE3							QUAL PAGE	
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000056 1CES1 3 000062 ICES1 3	HFE3	7						7.0	
000083 ICES1 3	HFE3	-,			48 1 202 110				
000087 HFE3 7						7			
000091 ICES1 3	William Control		11 10 10 10 10 10 10	THE MEDICAL PROPERTY.					
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EVICE = SJ6708	1	CONTROL #	= 055238 = 001 = 10				
REJECT LIST							
UNIT PARAM PAGE	PARAM PAGE	PARAM PAGE	PARAM PAGE	PARAM PAGE	PARAM PAGE		
00093 ICES1 3 00094 ICES1 3							
00096 ICES1 3 00097 ICES1 3							
00098 HFE3 7 00099 ICES1 3							
00102 ICES1 3 00103 ICES1 3							
00107 ICES1 4 00109 ICES1 4 00110 ICES1 4							
00112 ICES1 4 00119 ICES1 4	HFE3 6				Burney All Control		
00121 ICES1 4 00122 ICES1 4	CV SARRY OF GREEN THROUGH THE SARRY	A SULPERIOR OF THE SECOND				A STATE OF	
00126 ICES1 4 00128 ICES1 4							
00131 HFE3 6 00136 ICES1 4	HFE3 8						
00140 ICES1 4 00141 ICES1 4							
00143 ICES1 4 00144 ICES1 4 00153 ICES1 4	4						
00160 ICES1 5 00161 ICES1 5							
00167 ICES1 5 00168 ICES1 5	HFE3 9						
				Section (Section)			
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DEVICE = SJ6708H			4	CONTROL # = DS5238		SAMPLE SIZE = 55	
			1	LOT = 001		# REJECTS = 6	1 92
				READOUT = 15		x REJECTED = 14.55 %	
	Alexander State		•	PRIOR = 05			9.6
				TST CMPL = 04/13/78			
DESCRIPTION =	IPN PL-99 BURN-IN T 168 HOURS	.784 J_ 187. TABLE	5 DE	6 C			30
PARAMETER CONDITIONS	PARM #	TEST (		LIMITS # FAIL	JRES	REJECT CRITERIA	
CES1	001	001	MIN MAX	= 50. UA	0 1	ELECT READING	MEAN = 1.6888743 UA 3 STD DEV = 7.449702 UA
(CE51 (D)	001	001	PARM MIN MAX	# 1 = 001 PARM # 2 = 001 = -20. UA = 20. UA		CALC # = 21 DELTA DEPENDENT CODE 1	MEAN = 915.1987 NA 3 STD DEV = 7.238653 UA
CES1 (%)	001	001	PARM MIN MAX		0	CALC # = 22  * DELTA DEPENDENT CODE 3	MEAN = 12.672760 x 3 STD-DEV = 96.23563 x
CES 2	002	002	MIN XAM		0	ELECT READING	MEAN = 134,39766 MV 3 STD DEV = 55.26573 MV
CES 2	003	005	MIN		0	ELECT READING	MEAN = 239.73511 U 3 STD DEV = 487.0726 U
FE A	004	004	MIN MAX		0 1	ELECT READING	MEAN = 11.689181 3 STD DEV = 5.502648
FE3	005	003	MIN		0 1	ELECT READING	MEAN = 27.305480 3 STD DEV = 9.428051
FE3 (%)	005	603	PARM MIN MAX	# 1 = 005 PARM # 2 = 005 = -20. X = 20. X	1	# DELTA CALC # = 22	MEAN = -12.(94210 %

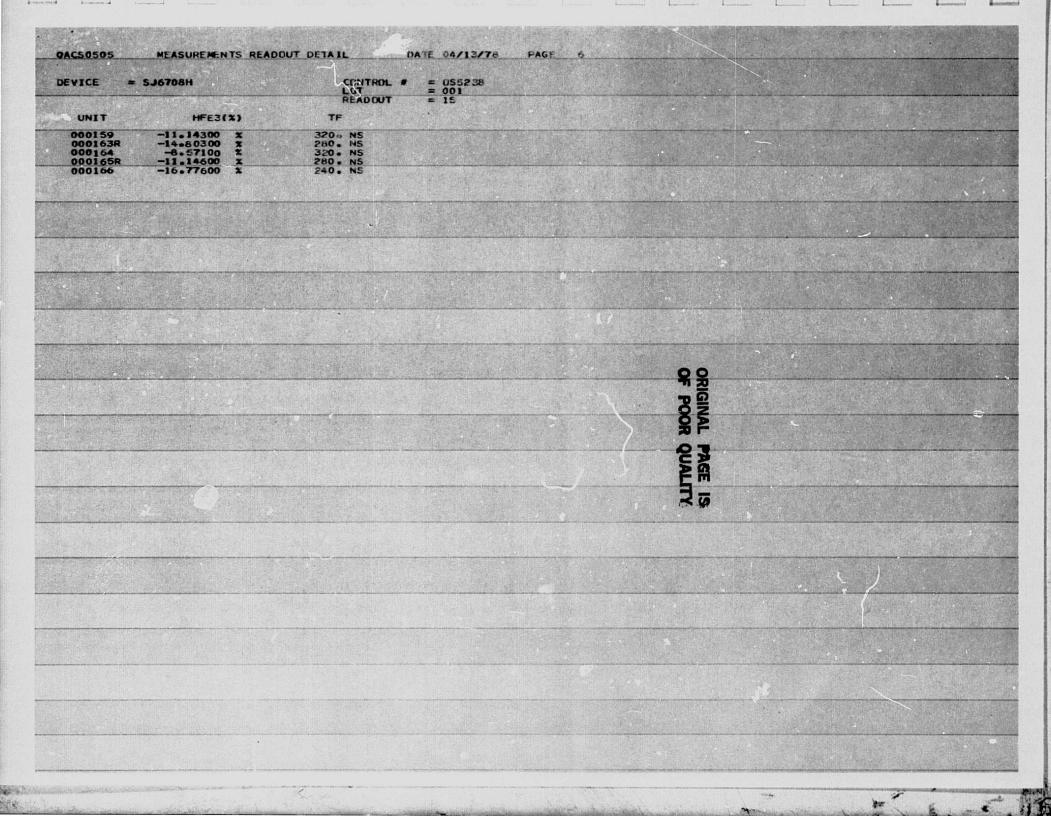
MEASUREMENTS COVER SHEET DATE 04/13/76 PAGE QACS0505 DEVICE = SJ6708H CONTROL # = 055238 LOT = 001 READOUT = 15 PARAMETER CONDITIONS PARM # TEST # LIMITS # FAILURES REJECT CRITERIA TF 006 006 ELECT READING MEAN = 356.5720 NS 3 STD DEV = 172.57538 KS 1. US

EVICE = S	J6708H	CONTRO					
		LOT READOU	= 001 IT = 15				
		ni-ruc.					
UNIT	ICES1	ICES 1(D)	TCES1(x)	VCES 2	ICES 2	HFE A	HFE3
000070	565.0 NA	125.5 NA	28.55500 %	132.5 MV	292.5 U	12.11	29.9
000071	474.0 NA	37.5 NA	8.60000 %	120.5 MV	281.0 U	12.29	31.0
000072	836.5 NA	471.5 NA	129-1700 %*	147.0 MV	10.240 U	14.79	27.2
000073	421.0 NA	6.5 NA	1.568100 %	1.945 MV	242.0 U	11.42	28.5
000075	350 -5 NA	-26.5 NA	-7.02900 %	136.0 MV	245.5 U	7.77	22.9
000076	447-5 NA	43.0 NA	10.63000 %	117.5 MV	289.0 U 192.00 N	12.09	32.1 24.0
000077	450.5 NA	61.5 NA	15.80900 %	162.0 MV	192.00 N	10.82	29.1
000078	514.5 NA	112.5 NA	27.98500 % 9.49200 %	119.5 MV	233.0 U 320.0 U	14.01	26.2
000079	756.0 NA 1.1650 UA	65.5 NA 785.5 NA	206.9800 X*	116.5 MV	267.0 U	11.09	28.1
000082	2.180 UA	505.5 NA	30.19700 X	136.5 MV	283.0 U	11.00	29.0
000085	858-0 NA	445.5 NA	108.0000 X*	118.0 MV	318.5 U	11.45	29.5
000086	548.5 NA	119.5 NA	27.85500 X	127.0 MV	306.5 U	10.97	28.5
0000898	8.760 UA	8.1575 UA	1.353900 KX#	144.0 MV	868.0 U	8.00	22.2
000090	384 .0 NA	44.0 NA	12.941 00 %	140.5 HV	19.05 U	9.07	20.8
000092	528.5 NA	82.0 NA	18.36500 %	117.0 MV	278.5 U	11.53	30.3
000095	1.4680 UA	-552.0 NA	-27.32600 X	165.0 MV	342.5 U	9.44	22.5
000100R	7.595 UA	7.2245 UA	1.949900 KX*		17.45 U	1000年100日 1000年100日 1000日	
000104	1.4720 UA	421.5 NA	40.1400 %	121.0 MV	352.5 U	13.35	32.2
000105	3.190 UA	-1.335 UA	-29.50200 X	167.5 MV	9.55 U	10.66	28.6
000106	2.395 UA	1.9625 UA	453.700 X*	184 -5 MV	12.75 U	11-06	21.1
000108	469.0 NA	-125.5 NA -119.5 NA	-21.11000 X -14.55500 X	128.5 MV	273.0 U 255.5 U	11.32	27.7
000113	701 .5 NA	-45.5 NA	-8.56400 X	116.5 MV	198.40 N	11.29	30.1
000114	485.0 NA 357.0 NA	-45.5 NA	-11.30400 x	122.5 MV	242.0 U	9.39	23.9
000116	347.5 NA	-69.5 NA	-16.66600 X	133.0 MV	255.5 U	7.06	21.6
000117	2.265 UA	1.8865 UA	498.400 %*	126.0 MV	203.20 N	13.35	29.2
000118	645.5 NA	-2.5 NA	-385.800 MX	133.5 MV	256.0 U	13.54	24.2
000123	2.060 UA	937.5 NA	83.5500 %	181.5 MV	371.0 U	10.15	27.0
000124	2.780 UA	-1.250 UA	-31.01700 ×	162.0 MV	23.40 U	10.75	29.2
000125	1.2000 UA	773.5 NA	181.3500 %	125.0 MV	205.5 U	13.77	26.8
000127	557.0 NA	140.0 NA	33.5700 %	119.0 MV	221.0 U	13.83	28.9
000129	725.5 NA	-203.5 NA	-21.90500 %	145.0 MV	236.0 U	14.38	28.5
000130	2.095 UA	1.7375 UA	486.000 **	138.5 MV	242.0 U	15.13	28.5
000132	2.560 UA	AU 0080.S	433-300 **	132.0 MV	261.5 U	12.89	25.7
000133	6.070 UA	2.370 UA	64.0500 %	155.5 MV	329.0 U	14.02	28.8
000134R	472.0 UA#	471.2750 UA*	65.0000 KX#	127-0 MV	3.500 M * 2.0475 U	10.48	25.1 27.1
000135	628.5 NA	138.5 NA	28.26500 X	124.0 MV 163.5 MV	448.0 U	12.24	20.1
000137 000138	14.555 UA 869.0 NA	13.8410 UA 415.5 NA	1.938500 KX* 91.7200 X	155.5 MV	278.5 U	12.02	25.0
000138	338.5 NA	-26.5 NA	-7.26000 X	131.5 MV	306.0 U	14-18	29.1
000142	489.0 NA	95.0 NA	24.11100 X	123.0 MV	246.5 U	14.81	31.9
000146	493.0 NA	-160.0 NA	-24.50200 X	124.0 MV	244.5 U	14.40	30.0
000147	367.5 NA	-61.5 NA	-14.33500 X	119.5 MV	242.0 U	12.85	27.5
000148	473.0 NA	16.0 NA	3.50100 X	124.0 MV	274.0 U	12.52	22.7
000154R	423.5 NA	-45.0 NA	-9.61500 x	112.5 MV	99.9 M #	13.06	31.4
000155R	535.5 NA	34.0 NA	6.70600 X	130.5 MV	99.9 M *	9.49	23.1
000156R	970.5 NA	470.0 NA	94.0000 %	122.5 MV	99.9 M #	11.90	29.5
000157	1.4145 UA	854.0 NA	152.3500 %*	125.5 MV	178. U	10.89	27.7
000158	1.1040 UA	457.5 NA	70.8200 %	127 .5 MV	218. U	10.33	26.8

数は666年日の日 第七月日日日日日

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	LOT READOU	L # = 085238 = 001 T = 15				
3.450 UA 498.5 NA 439.5 NA 622.5 NA 4.650 UA	1CES1(D) 3.0115 UA 9.5 NA -31.0 NA 160.0 NA 3.4210 UA	1CES1(x) 667.500 x* 1.942700 x -6.59500 x 24.15000 x 276.3500 x*	VCES 2 114.0 KV 119.5 MV 114.5 MV 130.5 MV	1CES 2 286. U 99.9 M * 153. U 99.9 M * 710. U	HFE 4 12.44 10.42 12.50 10.63 9.60	HFE3 30.3 28.2 32.0 27.9 25.3
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	3.450 UA 498.5 NA 439.5 NA 822.5 NA	ICESI ICESI(D)  3.450 UA 3.0115 UA 496.5 NA 9.5 NA -31.0 NA 622.5 NA 160.0 NA	ICES1 (D) ICES1(X)  3.450 UA	3.450 UA 3.0115 UA 667.500 X# 114.0 MV 496.5 NA 9.5 NA 1.942700 X 119.5 MV 439.5 NA -31.0 NA -6.59500 X 114.5 MV 622.5 NA 160.0 NA 24.15000 X 130.5 MV 4.650 UA 3.4210 UA 276.3500 X# 122.5 MV	ICESI  3.4015 UA  3.40115 UA  496.5 NA  9.5 NA  1.942700 X  119.5 NV  98.9 N 4  439.5 NA  -31.0 NA  -6.59500 X  119.5 NV  153.0 U  622.5 NA  160.0 NA  24.5000 X  130.5 NV  99.9 M *  4.660 UA  3.4210 UA  270.3500 X*  122.5 NV  710. U	ICES1   ICES1(D)   ICES1(X)   VCES 2   ICES 2   HFE 4



MEASUREMENTS READOUT DETAIL DATE 04/13/78 QACS0505 PAGE CONTROL # = 055238 LGT = 001 READOUT = 15 DEVICE = SJ6708H REJECT LIST 000089 000100 000134 000154 000155 000156 000163 000165

DEVICE = SJ6708H		CONTROL #	= US5238 = 001 = 15						4	
REJECT LIST		ACADOO!	$\Psi_{i}\Psi_{j}$							
	ARAM PAGE	PARAM PAGE	PARAM	PAGE	PARAM	PAGE	PARAM	PAGE		
000100 VCES 2 3 H 000134 ICES 1 3 I 000154 ICES 2 3 000155 ICES 2 3	E 4 3 CES 2 3	HFE3 3	TF	5 4						
000156 1CES 2 3 000163 1CES 2 4 000165 1CES 2 4										
DELTA REJECTS UNIT PARAM PAGE P	ARAM PAGE	PARAM PAGE	PARAM	PAGE	PARAM	PAGE	PARAM	PAGE		
000134 ICES1 3 PERCENT DELTA REJECTS	ePron									
UNIT PARAM PAGE P. 000089 HFE3 5 000100 HFE3 5	ARAM PAGE	PARAM PAGE	PARAM	PAGE	PARAM	PAGE	PARAM	PAGE		
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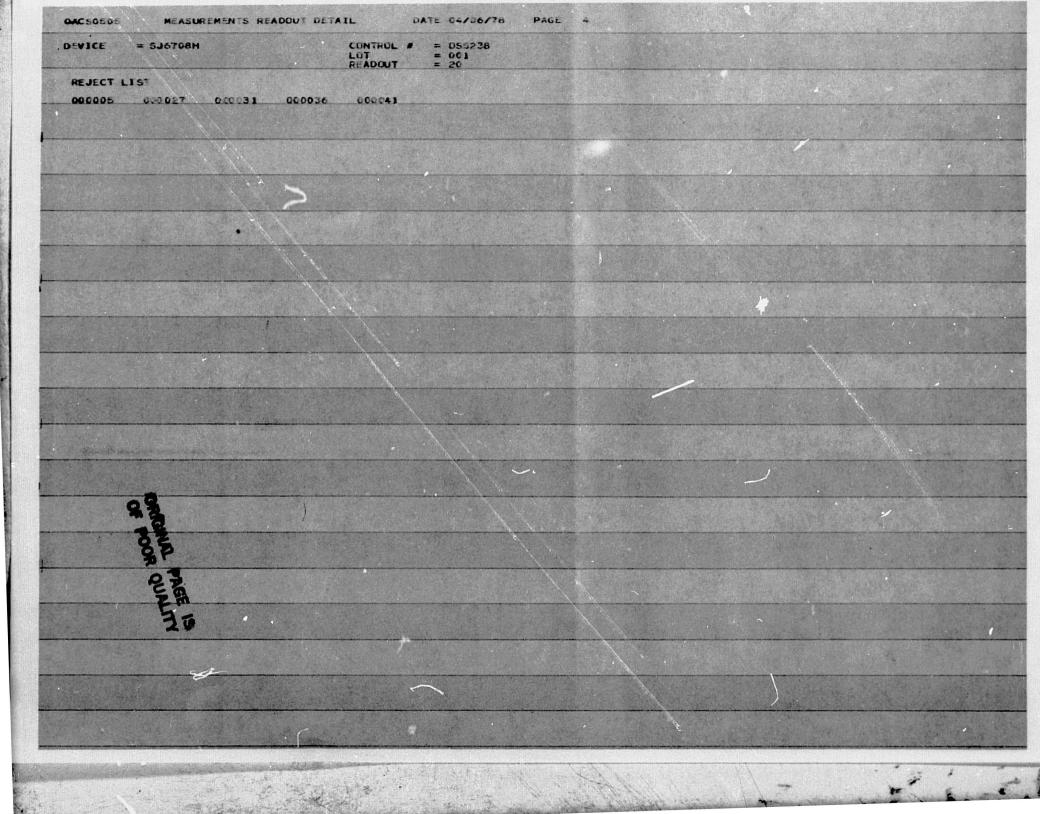
EVICE = SJ6708H				CONTROL		055238		SAMPLE SIZE	= 76		
				LOT	_	001		# REJECTS	<b>=</b> 5		
				READOUT	-	20		* REJECTED	= 6.58 X		
	•			PRIOR	=	NONE					
				TST CMP	L =	04/05/	78				
ESCRIPTION =	NPN PL-9	9.784		4							
	GR LUP B		L TABI	£ 4							
ARAMETER CONDITION	S PARM	TEST		LINIT	5		# FAILURES	REJECT CRITERIA			
CES	001	001	MIN				0	ELECY READING		MEAN =	1.5883696 W
			MAX		50.	UA	0			3 STD D:V =	8.332187 W
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VCES	002	002	MIN	=	800.	٧	5	ELECT READING		MEAN =	922.9436
<b>VC</b> ES	2002	005	MIN	=	800.	<b>V</b>	\$	ELECT READING		MEAN =	
			MIN	=	800.	•	\$	ELECT READING		MEAN =	922.9436
Œ5 2	00.2	002	MAX				•	ELECT READING		MEAN = MEAN =	922.9436 157.86326
Œ5 2			MAX		800.		•			MEAN = 3 STD DEV =	922.9436 157.86326
ŒS 2			MAX				•			MEAN = MEAN =	922.9436 157.80326
	00.3	003	MAX	-			•			MEAN = MEAN =	922.9436 157.86326

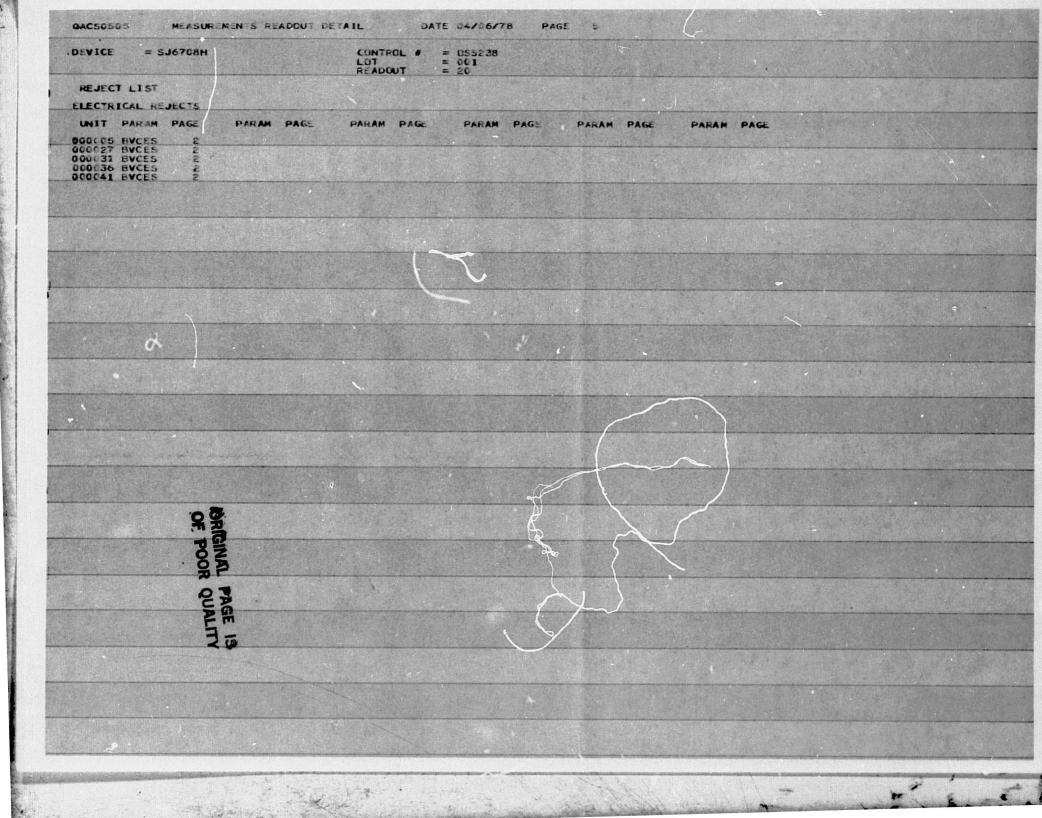
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EVICE	= SJ6708H	CONTROL LOT READOUT	# = 055238 = 001 = 20			11.		
UNIT	1Œ\$	BVCES	VCES 2	HFE 3				
000001	2.530 UA	894.5 V	129.5 MV	27.9				
000003	520-0 NA	805.5 V	130-5 MV	24-1				
000004	18-400 UA	894.0 V	128.0 MV	27.7				
000005R	7.600 UA 609.0 NA	791.5 V# 959.5 V	182.5 MV 119.5 MV	28.1				
000008	3.320 UA	871.5 V	196.0 MV	23.3				
000009	2.585 UA	936.5 V	137.5 MV	30.7				
000011	713.0 NA	939.0 V	158.0 MV	25.3				
000012	1.3915 UA	943.5 V	162.0 MV	27.7				
000013	2.035 UA	905.5 V	151.0 MV	24.9		THE RESERVE OF THE PARTY OF THE		
000014	450.0 NA	815.5 V	115.0 MV	31.0				
000016	536.5 NA	1.0045 KV	150.0 MA	30.7				
000018	690.5 NA	952.5 V	119.0 MV	32.4				
	596.5 NA 1.3105 UA	951.5 V 935.5 V	136.0 MV 123.5 MV	31.7				
000020	553.0 NA	871.5 V	132.0 MV	24.0				
000023	1.0900 UA	919.5 V	136.5 MV	30.4				
000025	768.0 NA	919.5 V 951.5 V	142.0 MV	30 .3			THE PARTY OF THE P	
000026	1.0000 UA	911.5 V	154.5 MV	26.1				
000027R	512.5 NA	799.5 V*	116.5 MV	32.5				
000030	BCO.O NA	991.5 V	129.0 MV	31.2				
000031H	15.100 UA	715.5 V*	127.0 MV	31.5				negli banda
000033	4.160 UA 1.5690 UA	847.5 V 951.0 V	167.5 MV	26.5				
000035	509.0 NA	951.0 V 631.5 V	142.0 MV 137.5 MV	30.1				
000036R	3.370 UA	799.5 V*	160.5 MV	26.5	12 4 10 10 10 10 10 10 10 10 10 10 10 10 10	***		
000038	458.5 NA	967.5 V	142.E MV	23.9				
000040	726.5 NA	851.5 V	119.0 MV	33.1				
000041R	475.0 NA	149.0 V#	124.5 MV	24.5				
000042	514.0 NA	927.5 V	141.5 MY	23.9				William Street Street Street
000046	513.5 NA	815.5 V	136.5 MV	25.2				
000048	578.5 NA	919.5 V	129.6 MV	30.4				
000049	1.2740 UA	938.5 V	148.0 MV	30.4				NOT COLUMN TO SERVICE STATE OF
000050	634.0 NA 481.0 NA	924.0 V	137.5 MV 128.0 MV	29.7				
000052	397.5 NA	931.5 V	118.0 MV	30.5				
000053	1.3780 UA	911.5 V	125.0 MV	31.4				
000054	461.0 NA	858.5 V	125.0 MV	23.5	CONTROL OF LIGHT PARTY.	PLO BOOKETS AND SHIELD	STATE OF STA	the wife the contract of the con-
000055	564.5 NA	831.5 V	137.5 MV	23.6				
000056	1.3945 UA	887.5 V	116.0 MV	34.2				
000060	1.0290 UA	945.5 V	127.5 MV	30.7				<b>以</b> 自己的一个
000061	1.4510 UA	875.5 V	136.0 MV	31.5				ASSESSED FOR STATE OF
000 63	3. C15 UA	831.5 V	172.0 MV	25.3				
000064	1.4385 UA 4.770 UA	978.5 V 671.5 V	124.0 MV	32.1	and the same of th			
000065	400.5 NA	671.5 V 1.0245 KV	177.5 MV 140.5 MV	28.4				
000067	1.5050 UA	808.5 V	117.5 MV	33.7				
000068	425.0 NA	923.5 V	115.5 MV	33.4				
060 69	602-0 NA	911.5 V	138.0 MV	24.1				
000071	680.0 NA	907.5 V	117.5 MV	32.2				

QAC50505	MEASUREMENTS REA	DOUT DETAIL	DATE 04/06/78	PAGE 3			
DEVICE	= S <b>J</b> 6708H	CONTRO LOT READOU	L # = 055238 = 001 T = 20				
UNIT	IŒS	BVCES	VCES Z	HFL 3			
000072	516.5 NA	1.0075 KV	143.5 MV	27.4			
000073	403.0 NA 346.5 NA	1.0065 KV 941.5 V	135.5 MV 132.5 MV	28.1			
000078	606-5 NA 807-5 NA	970-5 V 903-5 V	117.0 MV 137.5 MV	28.9	#		
060079	620.0 NA	965. V	114.0 MV	26 • 4 28 • 6			STATE OF THE PARTY OF
000086	606.5 NA 417.5 NA	957.5 V 983.5 V	124.0 MV 145.5 MV	20.9			
000095	745.0 NA 1.7240 UA	933.0 V	114.5 MV	30.7	10		
000105	3.560 UA	976.0 V 910.5 V	185.0 MV	22.5			
000106	936.0 NA 609.0 NA	1.0250 KV 910.5 V	161.5 MV 125.0 MV	21.2	14020		
000113	858-5 NA	889.5 V	130.0 MV	29.5			
000114	574.5 NA 347.0 NA	940.5 V 927.5 V	113.5 MV 123.0 MV	30.1			
000117	2.855 UA 677.0 NA	1.0145 KV 956.0 V	123.0 MV 132.5 MV	29.9			
000123	677.0 NA 765.0 NA 1.560 UA	1.0195 KV	181.0 MV 158.5 MV	27.4			
000125	263.5 NA	942.5 V	123.0 MV	27.9			
000126	672.0 NA 712.5 NA	910.0 V 905.0 V	114.0 MV 144.0 MV	30.0 27.5			
000128	427.5 NA	915.5 V	135.5 MV 144.0 MV	27.6			
000130	712.5 NA 427.5 NA	905.0 V 915.5 V	135.5 MV	27.5			
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DEVICE = SJ670	8 <b>H</b>			CONTRI			SAMPLE SIZE = 20		19 数交易数
				READO			# REJECTS = 0		
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				TST C			BATTER STATE OF STATE		
DESCRIPTION =	NPN PL-9	9.784		13. C	- 02/03/				
	GONSTANT TABLE 4	ACCELE	RATIC	N ACUI	UST1C				The state of the s
PARAMETER CONDITI	ONS PARM	TEST	•	LIM	ITS. #	FAILURES	REJECT CRITERIA		
ICES 1	001	001							
		5	MIN		50. UA	0	ELECT READING		1.1661722 U 2.9947786 U
BVCES	002	002	MIN	Ī	800. V	000	ELECT READING	MEAN = 3 STD DEV =	946.7500 123.09599
VCES 2	003	003	MIM XAM		1. V	8	ELECT READING	MEAN = 3 STD DEV =	134.79965 M 63.57187 M
HFE 3	004	004	MIN		20.	0	ELECT READING	MEAN = 3 STD DEV =	
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0AC50505	MEASUREMENTS REA	DOUT DETAIL	DATE 02/09/78	PAGE / 2		
DÉAICE	= SJ6708H	CONTROL LOT READOUT	# = 055236 = 001 = 30		t de la companya de	
UNIT	ICES 1 626.0 NA	BVCES	VCES 2	HFE 3		
000072 000073 000075	522.0 NA 445.5 NA 473.0 NA	1.0055 KV 1.0055 KV 896.0 V 973.0 V	143.5 MV 135.5 MV 132.0 MV	27.3 27.9 23.4		1
000079 000080 000092	865.0 NA 684.5 NA 521.0 NA 829.5 NA	902.0 V	117.0 MV 138.0 MV 113.5 MV 114.0 MV	29.7 26.5 28.1 30.8		
000095 000096 000105	3.030 UA 679.5 NA 3.670 UA	931.5 V 975.5 V 955.5 V 909.5 V	185.0 MV 126.0 MV 164.0 MV	29.2 29.4		# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
000108 000113 000114 000115	634.0 NA 918.5 NA 619.0 NA 445.0 NA	910.5 V 887.5 V 937.5 V 927.5 V	125.0 MV 130.0 MV 114.0 MV 120.0 MV	28.3 29.5 30.0 24.1		
000117 000118 000123	713-0 NA	1.0115 KV	123.0 MV 131.5 MV 182.5 MV 160.0 MV	29.9 25.9 27.5		
000124 000125	808.0 NA	1.0215 KV 907.5 V 958.5 V	180.0 MV 182.5 MV	29.3 27.1		
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LOT	QACSOSOS MEASUR	EMENTS CO	VER SH	EET		DATE	12/1	4/77 PAGE	1 "		
READOUT = 35	DEVICE = \$36708H	$_{-}\!$			CONTROL	# =	0552	38	SAMPLE SIZE =	. 20	
READOUT = 35		1			LOT	_	0,01		# REJECTS =	0	
TST CMPL = 12/14/77  DESCRIPTION = NPN PL-99.784  E-4 SAFE DEPARTING AREA TABLE 4 LIMIT 1  PARAMETER CONDITIONS PARM # TEST # LIMITS # FAILURES REJECT CRITERIA  IGES 1 001 001  MIN = 000 00 000  MIN = 000 000  MIN =					READOUT				X REJECTED =	.00 ×	
DESCRIPTION = NPN PL-99.784  B-4 SAFE OPERATING AREA TABLE 4 LIMIT 1  PARAMETER CONDITIONS PARM # TEST # LIMITS # FAILURES REJECT CRITERIA  ICES 1 001 001  MIN = 0 ELECT READING MEAN = 897.0237 NA MAX = 50. UA 0 FLECT READING MEAN = 959.5498 V 0 FLECT READING MEAN = 959.5498 V 0 STD DEV = 131.34851 V  VCES 2 003 003  MIN = 0 ELECT READING MEAN = 137.04967 MV MAX = 1. V 0 ELECT READING MEAN = 137.04967 MV MAX = 1. V 0 ELECT READING MEAN = 26.939715 MV  HFE 3 004 004  MIN = 20. 0 ELECT READING MEAN = 26.939941					PRIOR	_	NONE			Marie 1997	
### SAFE OPERATING AREA TABLE 4 LIMIT 1  PARAMETER CONDITIONS PARM # TEST # LIMITS # FAILURES REJECT CRITERIA  ICES 1 001 001  MIN = 0 ELECT READING ### 1 2020 1 2020		3			TST CMPL	_	12/1	4/77			
PARAMETER CONDITIONS PARM # TEST # LIMITS # FAILURES REJECT CRITERIA  ICES 1 001 001  MIN = 0		B-4 SAFE	OPERAT		AREA						
ICES 1 001 001  MIN = 0 ELECT READING MEAN = 897.0237 MA		TABLE 4 L	IMIT 1								
MIN = 50. UA 0 ELECT READING MEAN = 897.0237 NA 3 STD DEV = 2.2618778 UA  BVCES 002 002  MIN = 800. V 0 ELECT READING MEAN = 959.5498 V 3 STD DEV = 131.34851 V  VCES 2 003 003  MIN = 0 0 ELECT READING MEAN = 137.04967 NV 3 STD DEV = 69.39715 NV  HFE 3 004 004  MIN = 20. 0 ELECT READING MEAN = 26.939941	PARAMETER CONDITIONS	PARM #	TEST	*	LIMITS			# FAILURES	REJECT CRITERIA		
BVCES 002 002  MIN = 800 · V 0 ELECT READING  MEAN = 959 · 5498 V 0 STD DEV = 131 · 34851 V  VCES 2 003 003  MIN = 1 · V 0 ELECT READING  MEAN = 137 · 04967 NV 0 STD DEV = 69 · 39715 NV  HFE 3 004 004  MIN = 20 · O ELECT READING MEAN = 26 · 939941	ICES 1	001	001								
MIN = 800. V 0 ELECT READING MEAN = 959.5498 V MAX = 003 003						50.	UA		ELECT READING		897.0237 NA 2.2618778 UA
MIN = 800. V 0 ELECT READING MEAN = 959.5498 V MAX = 003 003	BVCES	002	002								
VCES 2  003  003  MIN = 0 ELECT READING  MEAN = 137.04967 NV  3 STD DEV = 69.39715 NV  HFE 3  004  004  MIN = 20. 0 ELECT READING  MEAN = 26.939941						800.	٧		ELECT READING		131.34851 V
MAX = 1. V 0 3 STD DEV = 69.39715 MV  HFE 3 004 004  MIN = 20. 0 ELECT READING MEAN = 26.939941	VCES 2	003	003								
MIN = 20. 0 ELECT READING MEAN = 26.939941		*				1.	٧	0	ELECT READING		
	HFE 3	004	004								
			•					0	ELECT READING		

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QACS0505	MEASUREMENTS REA	DOUT DETAIL	DATE 12/14/77	PAGE 2		
DEVICE = :	SJ6708H	CONTROL LOT READOUT	= 001			
UNIT	ICES 1	BVCES	VCES 2	HFE 3		
000071 000072 000073	634.0 NA 528.6 NA 453.5 NA	908.5 V 1.0115 KV 1.0035 KV	117.5 MV 143.5 MV 138.0 MV	32 • 1 27 • 5 28 • 3		
000075 000078	439.5 NA 563.5 NA 877.0 NA	945.0 V 970.5 V 903.5 V	133.0 MV 116.0 MV 137.5 MV	23.6 28.8 26.6		
000079 000080 000086	539.5 NA 621.0 NA	951.5 V 955.5 V	114.0 MV 124.0 MV	28 • 1 29 • 0		
000090 000092 000095	341.5 NA 628.5 NA 1.4100 UA	979.5 V 930.0 V 967.5 V	144.5 MV 114.0 MV 185.5 MV	20.7 30.1 22.5		
000105 000106 000108	3.360 UA 1.4400 UA 478.5 NA	908.5 V 1.0220 KV 896.0 V	165.0 MV 184.0 MV 124.0 MV	29.0 21.1 27.7		
000113 000114 000115	677.5 NA 602.0 NA 345.0 NA	886.5 V 941.5 V 1.0235 KV	130.5 MV 113.0 MV 121.0 MV	29•1 30•3 23•7		
000117 000118 000123	2-560 UA 717-5 NA 704-0 NA	1.0125 KV 958.5 V 1.0155 KV	123.5 MV 131.5 MV 181.0 MV	29.4 24.2 27.0		
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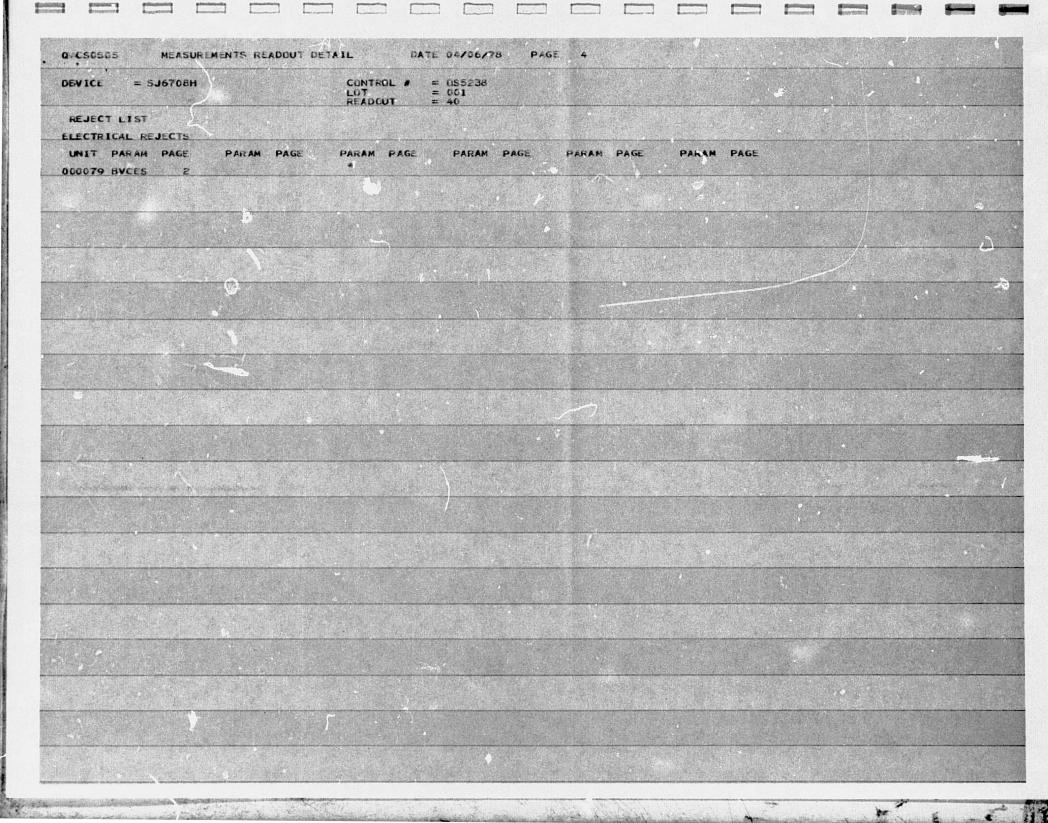
EVICE	= SJ67 08H				CONTROL A	= OS5	238		SAMPLE SIZE = 23		
					LOT	= 001			# REJECTS = 1		
					READOUT	= 40			% REJECTED = 4.35 %		
					PRIOR	= 20					
					TST CMPL	= 04/	05/78				
SCRIPTI	10N = 1	PN PL-99	.784								
		-5 HIGH 40 HOURS	TABLE	4	4_200 DEC						
RAMETER	CONDITIONS	PARM #	TEST	•	LIMITS		# FAI	LURES	REJECT CRITERIA	C	
ŒS 1		001	001				<b>,</b>				
ues I		W1		MIN	=			9	ELECT READING	MEAN =	894-7365 MA
				MAA		SU. UA				3 310 054 =	2.0004137 UA
CES 1	(D)	001	001	PARM	# 1 = 00	1 PARM -	2 = 001	- G	DELTA CALC # = 21		-17.506601 NA
				MAX	=	20. UA		Č	DEPENDENT CODE 1	3 STD DEV =	1.6146186 UA
CES 1		001	301		# 1 = 00	. DADM	0.00		CALC # = 22	No. 3	
LES I		w1	001	MIN	=		, Z = UC1	0	% DELTA	MEAN =	-2.6594781 X 98.50291 X
				MAX	=	100. %		0	DEPENDENT CODE 3	3 21D DEA =	98.50291 %
VCE5		002	902						13		
	100 100 100 100			MIN		800. V		0	ELECT READING	MEAN =	94-9495A Y
CES 2		663	003								
CES 2			ocs .	MIN		1. V		9 -	ELECY READING	MEAN =	138:15103 IX
				HAA	-	1				3 310 024 =	
FE 3		004	004	MIN		20.		0	ELECT READING	MEAN =	30 A60301
				MAX		60.		ŏ	PEEC READING	3 STD DEV =	
IPE 3	(x)	004	004	CARM	# 1 = 00	V CARM A	2 - 004		CALC # = 22		
				MIN	=	-20. X		0	X DELTA	MEAN =	1.0756855 X
				max						3 SID DEV =	1010093-0 2
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EVICE = S	J6708H	CONTRO LOT READOL	= 001				
UNIT	JCES 1	ICES I(D)	ICES 1(x)	BVCES	VCES 2	HPE 3	HFE 3(X)
000071	410.0 NA	-270.0 NA	-39.7000 x	893.5 V	114.0 MV	31.6	-1.863300 X
000072	36 5 5 NA	-151.0 NA	-29.23500 X	847.5 V	140.5 MV	25.6	-2.919700 %
000073	400.5 NA	-2.5 NA	-620.300 MX	863.5 V	134.5 MV	28.0	-355.800 M1
000075	402.5 NA	56.0 NA	16.16100 X	823.5 V	128.5 MV	23.6	3-050700 1
000 78	587.0 NA	-19.5 NA	-3.215100 X	845.5 V	114.0 MV	30.6	5.88200 1
000079R	740.5 NA	-67.0 NA	-8.30200 x	795.5 V*	135.0 MV	26.2	-757.50 M
000080	591.5 NA	-34.5 NA	-5.51100 X	871.5 V	111.5 MV	30.3	5-94400 1
0000686	442.5 NA	-164.0 NA	-27.04000 X	854.5 V	122.0 MV	28.2	-2.422100 X
000092	450.0 NA	-295.0 NA	-39.5900 %	877.5 V	112.0 MV	31.5	2.605800 1
000095	2.955 UA	1.2310 UA	71.4000 %	671.5 V	182.0 MV	23.4	2.631500 1
000105	3.470 UA	-90. NA	-2.528000 X	813.5 V	162.0 MV	29.4	0. 143
00 100	555.0 NA	-54.0 NA	-8.86600 X	809.5 V	124.0 MV	27.4	-3.180200 1
000113	764.5 NA	-94.0 NA	-10.94900 X	606.5 V	128.5 MV	20.4	-3.72800 1
000114	580.5 NA	0.0 NA	1.044300 X	643.5 V	112.5 MV	31.3	3.98600 %
000115	328.0 NA	-19.0 NA	-5.47500 X	831.5 V	127.0 MV	23.1	-2.531600 %
000117	1.1585 UA	-1.6965 UA	-59.4200 ×	935.5 V	119.0 MV	29.9	0. M1
000118	578.5 NA	-98.5 NA	-14.54900 X	607.5 V	131.5 HV	24.5	2.083300 3
000123	904.0 NA	139.0 NA	18.16900 %	823.5 V	177.5 MV	28.0	2.189700 1
000124	2.960 UA	1.400 UA	89.7400 X	847.5 V	156.5 MV	29.4	1.379300 %
000125	370.5 NA	107.0 NA	40.6000 X	831.5 V	121.0 MV	27.5	-1.433600 X
000127	549.5 NA	-163.0 NA	-22.87700 X	811.5 V	112.5 MV	30.3	10.18100 2
000129	618.0 NA	-94.5 NA	-13.c6300 X	823.5 V	140.0 MV	28.1	2.181800 X
000130	397.0 NA	-30.5 NA	-7.14200 %	831 . b V	133.5 MV	28.1	1.811500 %

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MEASUREMENTS READOUT DETAIL QACS0505 DATE 04/06/78 PAGE 3 CONTROL # = 055238 = 001 = 40 DEVICE = SJ6706H REJECT LIST 000079 OF POOR QUALITY on.



DEVICE = SJ6708H	7 .			CONTROL #	= CS5238		SAMPLE SIZE = 22		
			•	_CT	= 001		# REJECTS = 0	等地。(美国公司法律	
				READOUT	= 45		X REJECTED = .00 X		
				PRIOR	= 20				
				TST CMFL	= 04/26/78				
	NPN PL-SS B-5 HIGH 670 HOURS	TEPP L	IFE T	_200 DEG C					
PARAMETER CONDITIONS	PARM .	TEST	•	LIMITS	# FAI	LURES	REJECT CRITERIA		
ICES 1	001	001	MIN		0. UA	0 .	ELECT READING .		1.0988596 UA
ICES 1 (D)	001	001	PARM MIN MAX	= -2	FAFP # 2 = 001 0. UA 0. UA	0	CALC # = 21 DELTA DEPENDENT CODE 1		181.77252 NA 3.1355820 UA
ICES 1 (X)	001	001	PARM MIN PAX	=_	FARM # 2 = 001	0 2	CALC # = 22 % DELTA DEPENDENT CODE 3		-7:675933 X 91:78762 X
BVCES	002	C02	CIN.	= eo	C. V	0 0	ELECT READING	MEAN = 3 STD DEV =	823.8625 V 57.65249 V
VCES 2	003	E00	MIN		1. V	0	ELECT READING	MEAN =	132.47686 MV 55.18470 MV
HFE 3	004	004	MIN		<b>%</b> :	8	ELECT READING	MEAN = 3 STD DEV =	
HFE 3 (x) \	004	004		= -2	FAFN # 2 = 004 0. X	0	A DELTA		1.3167670 X

DE POOR QUALITY

ACS0505	MEASUREMENTS REA	CUT DETAIL	DATE 04/27/78	PAGE 2		100000000000000000000000000000000000000	
EVICE =	SJ67CEH		CL # = 055236				
		READO				Fig.	
UNIT	ICES 1	ICES 1(D)	ICES 1(%)	EVCES	VCES 2	HFE 3	HFE 3(%)
000071	450. NA 400. NA	-116-5 NA	-33.6200 X	863.5 V 831.5 V	115.5 MV 138.5 MV	31.7 26.8	-1.552700 X -2.169700 X
000073	470. NA	67.0 NA	16.62500 % -1.875900 %	847.5 V 815.5 V	136.5 MV 128.5 MV	28.0	-355.800 MX 2.163400 X
000078	435. NA 430. NA	-171.5 NA	-26.27600 X	835. V 831.5 V	114.5 MV 112.0 MV	30.3	4.84400 X
000086	475. NA 470. NA	-131.5 NA	-21.66100 X	823.5 V 831.5 V	123.0 MV 112.0 MV	27:3 31:7	-5.53600 X
000095 000105 000108	5.5 UA F. UA 600. NA	3.7760 UA 1.440 UA -9.0 NA	219.0200 X+ 40.4400 X -1.477800 X	863.5 V 840. V 830. V	182.0 MV 161.0 MV 125.5 MV	23.6 29.9 27.1	1.700600 X 1.700600 X -4.24000 X
000113	880. NA 500. NA	21.5 NA -74.5 NA	-1.477800 X 2.505800 X -12.96700 X	820. V 840. V	128.5 MV 114.5 MV	26.9 31.3	-2.033800 X
000115	400. NA 770. NA	53.0 NA	15.27300 X -73.1500 X	823.5 V 891.5 V	129.0 MV 121.0 MV	23.4	-1.265800 X
000118	680. NA	3.0 NA 105.0 NA	443.100 MX 13.72500 X	820. V 815.5 V	130.0 MV 177.0 MV	24.9 28.3	3.75000 X 3.26400 X
000124	3.5 UA	1.540 UA 181.5 NA	124.3500 X* 66.8800 X	823.5 V	157.0 MV 121.5 MV	29.6 27.7	-716.8CO MX
000127 000129 000130	420. NA 780. NA 360. NA	-292.5 NA 67.5 NA -67.5 NA	-41.0800 % 5.48000 % -15.78900 %	825. V 807.5 V 815.5 V	113.0 MV 140.5 MV 133.5 MV	29.9 28.8 27.5	6.72700 % 4.72700 % -362.300 PX
000130							-Se2-300 /A
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DEVICE	= SJ6708H				CONTROL	* =	085238	1	SAMPLE SIZE =	22		
					LOT	=	001		W REJECTS =	0		
					READOUT	=	50		% REJECTED =	.00 %		
•					PRIOR	=	20					
					TST CMPL	. =	05/24/78	-		1. 7		
DESCRIPT	ION =	NPN PL-9	9.784 RS TABL	= A								
PARAMETE	P CONDITIONS				LIMITS		# FA1	LURES	REJECT CRITERIA			
	Maria de la Companya											N. ARTERIA
ICES 1		001	001	MIN	4			0	ELECT READING		MEAN =	1.1995398
	6				=	50.	UA	0			3 STD DEV =	6.331744
ICES 1	(0)	001	001				M # 2 = 001		CALC #	= 21		
	•			MIN		-20· 20•		0	DELTA DEPENDENT CODE 1		MEAN =	262.45432
					التبوف							
ICES 1	(%)	001	001	MIN	-	O1 PAR	M * 2 = 001	0	% DELTA CALC #	= 22	MEAN =	-14-651146
$\sim \lambda$				MAX	-	100.	*	5	DEPENDENT CODE 3		3 STD DEV =	79.39457
BVCES		002	002									
	<u> </u>			MIN		800.	٧	0	ELECT READING		MEAN =	822.9770 53.19712
VCES 2		003	003	MIN				o	ELECT READING		MEAN =	132-22688
				MAX	=	1.		0			3 STD DEV =	61.61437
HEE 3	1614 1 3 \ <u>2\</u>	004	004									
				MIN		20. 60.		0	ELECT PEADING		MEAN =	7.549638
ucc a	( 7)	004	224	Dec		04 546	W × 2 - 004			- 33		
HFE 3	(x)	004	004	MIN		-20.	M # 2 = 004	0	% DELTA CALC #	- 22	MEAN =	-425-1390
				MAX		20.	*	0		1.	3 510 050 =	10.959042
	<b>5</b> 5											
	RE				• //	Marie de			6.1			W. A. S. State
	78	A CAMPAGE	1/1/									
	POOR	d		No.								
	23	No. Stock Co.										and the same
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QACS0505	MEASUREMENTS REA	DOUT DETAIL	DATE 05/25/78	PAGE 2			45 45 5
DEVICE = 5	SJ6708H	CONTR LOT READO	OL # = 085238 = 001 UT = 50				
. UNIT	ICES 1	ICES 1(D)	ICES 1(*)	HVCES	VCES 2	HFE 3	HFE 3(%)
000071 000072 000073 000078 000086 000086 000092 000095 000108 000113 000114 000115 000117 000117 000123 000123 000124 000125 000129 000129	500 · NA 430 · NA 430 · NA 320 · NA 320 · NA 440 · NA 470 · NA 460 · NA 10 · UA 3.8 · VA 530 · NA 750 · NA 460 · NA 350 · NA 350 · NA 340 · NA 350 · NA 340 · NA 350 · NA 360 · NA 360 · NA 370 · NA 370 · NA 370 · NA 370 · NA	-190.0 NA -86.5 NA 27.0 NA -26.5 NA -166.5 NA -166.5 NA -176.5 NA -176.5 NA -196.5 NA -285.0 NA 8.2760 UA 240. NA -79.0 NA -108.5 NA -114.5 NA -114.5 NA -2.315 UA -3.7.0 NA 1.64.0 UA 1.56.5 NA -322.5 NA -12.5 NA -77.5 NA	-26.47000 % -16.74700 % -6.69900 % -7.65800 % -27.45200 % -24.92000 % -32.39900 % -38.2500 % -38.2500 % -12.67800 % -12.67800 % -12.67800 % -12.67800 % -12.67800 % -81.2200 % -5.46500 % -81.2200 % -5.46500 % -81.2200 % -5.46500 % -81.2200 % -5.46500 % -81.2200 % -5.46500 % -81.2200 % -5.46500 % -81.2200 % -5.46500 % -81.2200 % -5.46500 % -81.2200 % -5.46500 %	839.5 V 823.5 V 831.5 V 805. V 810.5 V 810.5 V 811.5 V 812.5 V 812.5 V 820. V 815.5 V 820. V 815.5 V 850. V 815.5 V 860. V	113.5 MV 140.0 MV 135.5 MV 129.5 MV 112.5 MV 112.5 MV 111.0 MV 133.5 MV 123.6 MV 123.6 MV 123.6 MV 123.7 MV 130.5 MV 130.5 MV 130.5 MV 130.5 MV 130.5 MV 131.5 MV	31.2 26.0 27.9 22.5 29.9 29.2 27.4 31.3 23.4 29.9 26.2 27.9 30.7 22.6 29.0 25.0 27.4 29.6 27.6 29.6 27.6	-3.105500 X -5.10900 X -711.700 MX -1.746700 X 3.46000 X 2.097900 X +5.19000 X 1.954300 X 1.954300 X 1.700600 X -7.42000 X -5.42300 X 1.993300 X -4.64100 X -3.010000 X 4.16600 X 2.068900 X -1.075200 X 6.990900 X -1.075200 X -1.075200 X -1.075200 X -1.075200 X
			<b>18</b>				
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EVICE = SJ6708	SH	- 1	CONTROL I	= 055238		SAMPLE SIZE = 44	
			LOT	= 001		# REJECTS = 1	
			READOUT	<u>=</u> 55		* REJECTED = 2.27 *	
			PRIOR	= 20			
			TST CMPL	= 00/00/60			
ESCRIPTION =	NPN PL-9 8-6 SS 0 168 HOUR	PERATI	ON LIFE TJ_187	5 DEG C			
ARAMETER CONDITIO	ONS PARM	TEST	# LIMITS		FAILURES	REJECT CRITERIA	
ŒS 1	001	001					
			MIN = MAX =	50. UA	0 1	ELECT READING	MEAN = 929.4145   3 STD DEV = 2.2248368
CES 1 (0)	001	001	PARM # 1 = 00	1 PARM # 2 = 1	001	DELTA CALC # = 21	MEAN = -669.9007 I
			MIN =	-20. UA 20. UA	ĭ	DEPENDENT CODE 1	3 STD DEV = 7.668341
CES 1 (X)	001	001	G10W M 1 - 0	01 PARM # 2 = 0	001	CALC # = 22	
<b>G.S.4 W</b> 1		001	MIN = MAX =	100. %	D 3	% DELTA DEPENDENT CODE 3	MEAN = -19.484313 3 STD DEV = 151.47029
VCES	002	002					
			MIN = MAX =	600. Y	0	ELECT READING	MEAN = 941.1162 3 STD DEV = 154.76005
A Park							
CES 2	003	500	MIN =		0	ELECT READING	MEAN = 135.06770
			MAX =	1. V	0		3 STD DEV = 47.94356
FE 3	004	004					
				20.	0	ELECT READING	MEAN = 27.261260 3 STD DEV = 10.609914
				04 PARM # 2 =		CALC # = 22	
FE 3 (%)	004	004	MIN =	-20. X	0	% DELTA	MEAN = -5.525446
<b>国际区域的基本公司</b>			MAX =	20. %	<u> </u>		3 310 DEV = 9-989118.

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EVICE =	s <b>J</b> 6708H	CONTROL				**	
		LOT	= 001				
		READOUT	= 55				
UNIT	ICES 1	ICES 1(D)	ICES 1(%)	BVCES	VCES 2	HFE 3	HFB 3(%)
000001	639.5 NA	-1.8905 UA	-74.700 %	912.5 V	128.0 MV	25.3	-9.3100 X
000003	256.0 NA	-264.0 NA	-50.700 X	889.0 V	128.5 MV	22.0	-8.7100 X
000004	2.075 UA	-16.325 UA	-88.700 X	921.5 V	126.5 MV	23.9	4.3300 X
000007	704.0 NA	95.0 NA	15.500 X	943.5 V	118.0 MV	32.4	-2.4000 X
000000	2.0475 UA	-1.2725 UA	-38.300 %	978.0 V	176.0 MV	22.1	-5.1500 X -8.7900 X
000009	1.7920 UA	-793.0 NA	-30.600 X	943.5 V	132.5 MV	28.0	-0.7100 X
000011	764.0 NA	51.0 NA	7.1500 X	932.5 V	163.0 MV	23.6 25.5	-7.9400 %
000012	511.5 NA	-880.0 NA	-63.200 X	1.0335 KV 895.5 V	152.5 MV 152.0 MV	24.6	-1.2000 x
000013	2.395 UA 768.0 NA	360 • NA 318 • 0 NA	70.600 %	932.0 V	111.5 MV	29.0	-8.8000 X
000016	512.0 NA	-26.5 NA	-4.9200 X	991.0 V	131.5 MV	28.8	-6.1800 X
000016	640.0 NA	-50.5 NA	-7.3100 x	954. V	116.5 MV	31.2	-3.7000 2
000019	127.5 NA	-469.0 NA	-78.600 X	999.5 V	127.5 MV	31.4	0. MX
000020	1.5355 UA	225.0 NA	17.100 ×	1.0190 KV	118.0 MV	28.9	-8.8300 %
150000	3.5 NA	-549.5 NA	-99.300 ×	937.5 V	129.5 MV	22.1	-10.800 X
000023	327.5 NA	-762.5 NA	-69.900 %	921.5 V	131.0 MV	28.3	-6.9000 %
000025	768.0 NA	O. PA	0. P%	1.0240 KV	135.0 MV	27.7	-8.5800 X
000026	223.5 NA	-842.5 NA	-79.000 X	1.0230 KV	149.5 MV	23.7	-9.1900 X
000030	511.5 NA	-288.5 NA	-36.000 %	991.5 V	125.5 MV	29.2	-6.4100 X
000033	1.2800 UA	-2.8800 UA	-69.200 %	898.5 V	164.5 MV	25.8	-2.6400 X
000034	1.6640 UA	95.0 NA	6.0500 X	939.5 V	140.5 MV	29-1	-3.3200 %
000035	383.5 NA	-125.5 NA	-24.600 %	935.5 V	135.0 MV	22.1	-9.7900 %
000038	496.0 NA	-37.5 NA	8.1700 X	957.5 V	143.0 MV	22.4	-6.2700 X
000040	895.5 NA	169.0 NA	23.200 ×	895.5 V	120.0 MV	31.6	-9.5300 X
000042	255.5 NA	-258.5 NA	-50.200 X	923.5 V	136.5 MV	20.5	-14.200 X -5.5500 X
000040	2.0475 UA	1.5340 UA	298.00 X*	819.5 V	141.0 MV 126.5 MV	23.8	-8.8800 %
000048	384.0 NA	-194.5 NA	-33.600 % 10.400 %	983.5 V 919.5 V	151.0 MV	29.1	-4.2700 X
000049	1.4075 UA 511.5 NA	133.5 NA -122.5 NA	-19.300 %	903.5 V	129.0 MV	28.7	-3.3600 X
000051	256.5 NA	-224.5 NA	-46.600 %	914.5 V	128.0 MV	29.7	-2.6200 X
000052	767.5 NA	370.0 NA	93.000 %	895.5 V	118.0 MV	32.0	-2.7300 %
000053	2.800 UA	1.4220 UA	103.00 %*	925.5 V	132.0 MV	30.0	-9-9500 X
000054	127.5 NA	-33J.5 NA	-72.300 X	834.5 V	130.0 MV	22.1	-5.9500 X
000055	1.0635 UA	499.0 NA	88.300 ×	927.5 V	141.0 MV	22.3	-6.3000 %
000056	640.0 NA	-754.5 NA	-54.100 %	948.5 V	117.5 MV	32.8	-4.0900 X
000060	512.0 NA	-517.0 NA	-50.200 X	999.5 V	129.5 MV	29.3	-4.5600 X
000061R	54.15 UA*	52.6990 UA*	3.6300 KX*	780.0 V*	133.0 MV	30.4	-2.8700 x
000063	512.0 NA	-2.5030 UA	-83.000 %	1.0335 KV	173.0 MV	24.7	-2.3700 X
000064	384.0 NA	-1.0545 UA	-73.300 %	954.5 V	123.5 MV	30.7	-4.3600 %
000065	3.040 UA	-1.730 UA	-36.200 %	931.5 V	171.0 MV	28.1	-1.0500 X
000066	544.0 NA	137.5 NA	33.800 %	1.0055 KV	134.5 MV	28.4	-4.6900 ×
000067	1.7260 UA	223.0 NA	14.800 X	816.0 V	118.0 MV	32.8	-2.6700 %
000068	767.5 NA	342.5 NA	80.500 %	937.5 V	111.0 MV	30.3	-9.2800 X
000069	896.0 NA	294.0 NA	\$8.800 X	925.5 V	142.5 MV	22.4	-7.0500 X

DE POOR QUALITY

GACS0505 MEASUREMENTS READOUT DETAIL DATE 12/22/77 PAGE 3 CONTROL # = USER38 LOT = 001 READOUT = 55 DEVICE = SJ6708H REJECT LIST 000061

QACSOSOS MEASUREMENTS READOUT DETAIL DATE 12/22/17 CONTROL # = 055238 LOT .= 001 READOUT = 55 DEVICE = SJ6708H REJECT LIST

QACSOSCS MEASUREMENTS READOUT DETAIL DATE 12/22/77 PAGE 5 CONTROL # = 055238 LOT = 001 READOUT = 55 DEVICE = SJ6708H REJECT LIST

MEASUREMENTS READOUT DETAIL DATE 12/22/77 PAGE 6 QACS0505 CONTROL # = 055238 LOT = 001 READOUT = 35 DEVICE = SJ6708H REJECT LIST

DEVICE = SJ6708H		CONTROL # LOT READOUT	= 0\$5238 = 001 = 55			
REJECT LIST						
ELECTRICAL REJECTS						
UNIT PARAM PAGE	PARAM PAGE	PARAM PAGE	PARAM PAGE	PARAM PAGE	PARAM PAGE	
000061 ICES 1 2	BVCES 2					
DELTA REJECTS	are Marie					
UNIT PARAM PAGE	PARAM PAGE	PARAM PAGE	PARAM PAGE	PARAM PAGE	PARAM PAGE	
PERCENT DELTA REJECTS				## E		
		PARAM PAGE	PARAM PAGE	PARAM PAGE	PARAM PAGE	
0 00061 ICES 1 2						
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DENICE	= SJ6708H				CONTROL #	= 0552	36	SAMPLE SIZ	E = 43		
					LOT	= 001		# REJECTS	= 0		
					READOUT	= 60		X REJECTED	= .00 x		
					PRIOR TST CMPL	= 00/0	0/60		•		
DESCRIPTIO		NPN PL-99 9-6 SS OP 340 HOURS	ERATIO	LIF	E TJ_187.	5 DEG C					
PARAMETER	CONDITIONS	PARM #	TEST		LIMITS		# FAILURE	REJECT CRIT	ERIA		
ICES 1		001	001								
		•		MIN	Ξ	50. UA	0	ELECT READI		MEAN = 3 STD DEV =	1.0187141 UA 2.6976258 UA
PŒS I (	(0)	001	001	MIN	= 1	1 PARM # -20. UA	2 = 001	DELTA	CALC # = 21	MEAN =	-580.5994 NA
		Wales S		MAX	=	20. UA	0	DEPENDENT C	ODE 1	3 STD DEV =	8.680022 UA
ICES 1 (	( <b>x</b> )	001	001	PARM		1 PARM #	2 = 001	% DELTA	CALC # = 22	MEAN =	-26.607284 3
o de la compania del compania del compania de la compania del compania de la compania de la compania del compania de la compania de la compania de la compania del compania				MAX		100. %	10 to	DEPENDENT C	ODE 3		104-51380 2
BVCES		002	002	MIN		600. V	0	ELECT READI	NG.	WEAR -	935 46975 N
				MAX			0			3 STD DEV =	149.24807 V
VCES 2		003	003	MIN			Ö	ELECT PEADI	NG -	I de au	133.09258 MV
				MAX		1. V	ŏ	ELECT PEADL		3 STO DEV =	48.51396 MV
HFE 3		004	004	MIN		20.	C	ELECT READI	NG	MEAN =	26 067386
				XAM		60.	ŏ	ILLE FRANK		3 STD DEV =	10.732223
HFE 3 (	( <b>x</b> )	004	004			4 PARM #	2 = 004		CALC # = 22		
				MIN	=	-20. X	ŏ	* DELTA		3 STD DEV =	-6.367243 X
140.7											

Y COMMUNICATION OF THE PARTY.

EVICE	= SJ6708H	CONTRO	= 001				. 7
		READOU	T = 60				
UNIT	ICES 1	ICES 1(D)	ICES 1(%)	BVCES	VCES 2	HFE 3	HFE 3(X)
000001	660.5 NA	-1.8695 UA	-73.800 X	938.5 V	129.5 MV	26.2	-6.0900 %
000003	3.170 UA	2.6500 UA	509.00 %*	847.5 V	129.5 MV	22.3	-7.4600 X
000004	691.0 NA 555.0 NA	-17.7190 UA -54.0 NA	-96.200 X	910.5 V	123.0 MV	28.6	3-2400 %
000008	2.020 UA	-1.300 UA	-8.8660 X -39.100 X	931.5 V 981.0 V	119.0 MV	32.6	-1.8000 X
000009	1.6065 UA	-978.5 NA	-37.800 X	925.5 V	133.0 MV	22.1	-5.1500 X
000011	591.0 NA	-122.0 NA	-17.100 %	917.0 V	162.5 MV	28.9	-5.8600 X
000012	1.6240 UA	232.5 NA	16.700 %	986.0 V	157.5 MV	24.9	-10.100 X
000013	1.6370 UA	-190.0 NA	-9.7200 %	908.5 V	140.0 MV	23.3	-6.4200 X
000014	4.805 UA	4.3550 UA	967.00 X*	859.5 V	113.0 MV	28.5	-10.300 X
000016	383.5 NA	-155.0 NA	-28.700 x	1.0150 KV	131.5 MV	29.2	-4.8800 X
000018	511.0 NA	-179.5 NA	-25.900 %	933.5 V	117.5 MV	31.5	-2.7700 X
000019	386.5 NA	-210.0 NA	-35-200 %	983.5 V	126.5 MV	30.8	-1.9100 %
000050	1.5205 UA	210.0 NA	16.000 X	989.5 V	117-5 MV	27.9	-11.900 X
000021	329.0 NA	-224.0 NA	-40.500 %	930 .5 V	127.5 MV	21.8	-12.000 X
000025	784.5 NA	-305.5 NA	-28.000 X	907.5 Y	130.0 MV	28.8	-5-2600 X
000025	741.0 NA 2.460 UA	-27.0 NA 1.3940 UA	-3.5100 ×	1.0265 KV	132.0 MV	28.1	-7.2600 X
000030	486.5 NA	-313.5 NA	130.00 X*	967.5 V	151.0 HV	23.3	-10.700 X
000033	1.1385 UA	-3.0215 UA	-72.600 X	1.0055 KV 899.5 V	125.0 MV 162.5 MV	29.8	-4.4800 X
000034	1.4985 UA	-70.5 NA	-4.4900 X	925.5 V	141.0 MV	28.5	-5.3100 X
000035	615.5 NA	106.5 NA	20.900 %	923.5 V	135.5 MV	21.6	-5.3100 X
000038	266.5 NA	-192.0 NA	-41.800 X	947.0 V	136.5 MV	22.0	-7.9400 X
000040	509.5 NA	-217.0 NA	-29.800 %	904.0 Y	113.5 MV	31.2	-5.7400 %
000042	395.0 NA	-119.0 NA	-23.100 X	936.0 V	134.5 MV	20.4	-14.600 X
000046	434.0 NA	-79.5 NA	-15.400 X	869.5 V	125.5 MV	24.1	-4.3600 X
000048	393.0 NA	-185.5 NA	-32.000 ×	983.5 V	126.5 MV	27.4	-9.8600 %
000049	1.5585 UA	284.5 NA	22.300 %	903.5 V	149.0 MV	28.6	-5-9200 %
000050	971.5 NA	337.5 NA	53.200 X	917.5 V	122.5 MV	28.4	-4.3700 X
000051	406.5 NA 1.1745 UA	774.5 NA	-15.400 %	939.0 V	123.5 MV	29.3	-3.9300 X
000053	565.0 NA	-813.0 NA	195.00 X* -58.900 X	895.5 V	117.5 MV	31.5	-4.2500 X
000054	301.5 NA	-159.5 NA	-34.500 X	934.5 V 827.5 V	118.0 MV 129.5 MV	28.4	-9.5500 ×
000055	1.6035 UA	1.0390 UA	184.00 **	919.5 V	141.5 MV	21.6	-8.9300 X
000056	552.0 NA	-842.5 NA	-60.400 x	938.5 V	116.5 MV	32.5	-9.2400 X
000060	411.5 NA	-617.5 NA	-60-000 2	1.0115 KV	124.5 MV	29.1	-5-2100 1
000063	469.0 NA	-2.5260 UA	-83.700 %	1.0315 KV	171 5 HV		-2.3700 X
000064	399.5 NA	-1.0390 UA	-72.200 x	949.5 V	122.0 MV	30.3	-5.6000 X
000065	2.510 UA	-2.260 UA	-47.300 %	933.0 V	168.5 MV	28.3	-352.00 MX
000066	480.0 NA	73.5 NA	18,000 %	1.0115 KV	133.5 MV	28.8	-3.3500 %
000067	993.0 NA	-512.0 NA	-34.000 %	416.0 🙄	119.0 MV	32.4	-3.8500 %
000068	682.0 NA	257.0 NA	60.400 %	920. V	112.5 MV	29.4	-11.900 X
000069	304.0 NA	-298.0 NA	-49.500 X	931.5 V	137.5 MV	21.5	-10.700 E

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EVICE = SJ6708H			co	NTROL * = OSS	238	SAMPLE SIZE =	43	<i></i>	
			LO	T = 001		# REJECTS =	0		
			RE	ADOUT = 65		% REJECTED =	.00 x		
		9154 Sec. 10	PR	0S = 801			Bullion Boss		
			T5	T CMPL = 12/	12/77				
	NPN PL-99 8-6 SS DF 670 HOURS	ERATIO	N LIFE	TJ_187.5 DEG C					
ARAMETER CONDITIONS	PARM #	TEST	•	IMITS	# FAILURES	REJECT CRITERIA			
CES 1	001	001					12.		
			MIN = MAX =		0	ELECT READING			913.9377 NA 2.1649327 UA
CES 1 (D)	001	001	PARM # MIN = MAX =		S = 001	DELTA DEPENDENT CODE 1	# = 21		-685.3779 NA 8.464044 UA
(CES 1 (X)	001	001	PARM # MIN = MAX =	1 = 001 PARM #		CALC * DELTA DEPENDENT CODE 3			-31.308868 2 100.56674
vces f.	g: <b>6</b> 02	005	MIN =		L. C.	ELECT READING			931-5581 ) 158-18600 \
ICES 2	003	800	MIN = MAX =		0	ELECT READING			134.13912 MV 48.46382 MV
(FE 3	004	004	MIN =	20.	o	ELECT READING		MEAN =	26 305055
			MAX =	60.	ŏ			3 STD DEV =	10.445343
IFE 3 (X)	004	004	PARM # MIN = MAX =			% DELTA CALC	# = 22	MEAN = 3 STD DEV =	-6.362752 11.394787
9,9									
OF POC									
7									Section 1
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7.5		\							0.

	<b>国国际企业</b> 企业 (1985年)			300			
EVICE	= SJ6708H	CONTROL					
		LOT READOU	= 001				
		KEADOO	7 97		V 2.400 A 2010 A 20		
UNIT	ICES 1	1CES 1(D)	ICES I(%)	<b>EVCES</b>	VCES 2	HFL 3	HFE 3(%)
000001	473.0 NA	-2.0570 UA	-81.300 %	939.0 V	131.5 MV	25.6	-8.2400 X
000003	277.5 NA	-242.5 NA	-45.600 X	889.5 V	128.5 MV	21.9	-9.1200 X
000004	456.0 NA	-17-9440 UA	-97.500 x	891.0 V	126.5 MV	27.3 31.0	-6.5200 X
000007	590.0 NA	81.0 MA	13.300 % -34.000 %	974.5 V	116.5 MV 173.5 MV	22.4	-3.8600 X
800000	2.19C UA	-1.130 UA	-31.000 %	910.5 V	135.0 MV	28.4	-7.4900 X
000009	1. 7835 UA	-801.5 NA -127.0 NA	-17.800 X	877.0 V	158.5 MV	23.0	-6.7100 X
000011	586.0 NA 758.5 NA	-633.0 NA	-45.400 %	1-0115 KV	159.0 MV	24.9	-10.100 %
	2.145 UA	110. NA	5.4000 %	879.5 V	145.5 MV	22.7	-8.8300 X
000013	1.3910 UA	941.0 NA	209.00 %*	905.5 V	113.0 MV	27.6	-13.200 X
000016	365.0 NA	-173.5 NA	-32.200 X	999.5 V	130.0 MV	28.2	-8.1400 X
000018	393.0 NA	-297.5 NA	-43.000 X	923.5 V	119.0 MV	30.4	-6.1700 X
000019	306.5 NA	-290.0 NA	-48.600 %	998.5 V	123.5 MV	29.5	-6.0500 %
000020	923.5 NA	-387.0 NA	-29.500 X	975.5 V	119.5 MV	26.4	-16.700 X
000021	411.5 NA	-141.5 NA	-25.500 %	909.0 V	132.5 MV	20.5	-17.300 X
000023	742.5 NA	-347.5 KA	-31.800 %	882.5 V	133.5 MV	28.0	-7.8900 %
000025	690.5 NA	-77.5 NA	-10.000 %	I.0035 KV	139.5 MV	26.4	-12.800 ×
000026	342.5 NA	-723.5 NA	-67.800 %	1.0155 KV	149.5 MV	22.9	-12.200 X
000030	420.0 NA	-380.0 NA	-47.500 X	997.5 V	127.0 MV	28.6	-7.6900 X
000033	941.6 NA	-3.2190 UA	-77.300 %	903. V	164.5 MV	25.5	,-3.7700 X
000034	1.4350 UA	-134.0 NA	-8.5400 %	923.5 √	141.5 MV	28.3	-5.9800 ×
000035	1.2580 UA	749.0 NA	147.00 %*	894.5 V	140.0 MV	21.0	-14.200 X
000038	223.5 NA	-235.0 NA	-51.200 X	641.5 V	140.0 MV	21.1	-11.700 X
000040	463.5 NA	-263.0 NA	-36.200 %	904.0 V	114.0 MV	30.4	-8.1500 Z
000042	326.5 NA	-187.5 NA	-36.400 %	932.0 V	136.0 MV	20.2	-15.400 %
000046	374.5 NA	-139.0 NA	-27.000 %	661.5 V	128.0 MV	23.6	-6.3400 % -9.8600 %
000048	383.0 NA	-195.5 NA	-33.700 %	975.5 V 901.5 V	127.0 MV 149.5 MV	27.4	-4.2700 X
000049	1.8865 UA	612.5 NA	48.000 % 24.000 %	916.5 V	124.0 MV	28.1	-5.3800 %
000050	786.5 NA 417.0 NA	-64.0 NA	-13.300 %	929.5 V	125.5 MV	29.2	-4.2005 X
000052	2.980 UA	2.5825 UA	649.00 %*	655.5 V	119.0 MV	31.2	-5.1600 X
000053	2.360 UA	982.0 NA	71.200 %	948.5 V	122.0 MV	28.1	-10.500 x
000054	262.5 NA	-198.5 NA	-43.000 %	825.0 V	131.0 MV	21.1	-10.200 x
000055	1.1650 UA	600.5 NA	166.00 %#	919.5 V	143.5 MV	21.4	-10.000 ×
000056	493.0 NA	-901.5 NA	-64.600 %	926.5 V	115.0 MV	32.2	-5.8400 X
000060	416.0 NA	-613.0 NA	-59.500 %	1.0055 KV	123.5 MV	28.3	-7.8100 2
000063	402.5 NA	-2.6125 UA	-86.600 %	1.0230 KV	174.0 MV	24.3	-3.9500 %
000064	1.2820 UA	-156.5 NA	-10.800 X	987.5 V	116.0 MV	30.1	-6.2306 X
000065	2.955 UA	-1.615 UA	-38.000 %	867.5 V	166.0 HV	27.5	-3.1600 X
000066	352.0 NA	-54.5 NA	-13.400 %	1.0055 KV	134.5 MV	28.0	-0.0400 X
000067	1.1725 UA	-332.5 NA	-22.000 X	816.0 V	, 115.0 MV	32.3	-4-1500 X
000068	1.2615 UA	636.5 NA	196.00 %*	915.5 V	115.5 MV	25.0	-14.300 X
000069	357.0 NA	-245.0 NA	-40.600 %	919.5 V	140.5 MV	21.1	-12.400 X

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DEVICE	= SJ6708H				CON.	TROL # =	= OS	523	3		SAMPLE SIZE =	43			
					LOT	-	= 00	1			# REJECTS =	1			
				and the	REAL	DOUT =	75	5			% REJECTED =	2.33 X			
					PRI	DR =	= 20	)			Carlos Arriva				
	NAME OF THE OWNER, OF THE OWNER, OF THE OWNER, OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,	•			TST	CMPL =	= 03	/06	/78						
DESCRIPTIO		NPN PL-99 8-6 SS OP 1500 HOUR	ERATIO	N LIF	E T.	J_187.5 DE	G C	ĵ							
PARAMETER	CONDITIONS	PARM #	TEST	•	L	IMITS			# FAII	LURES	REJECT CRITERIA		deskips	•	
ICES 1	~	001	001												
	**	- <b>40 a</b>		MIN	=	50•	UA	ı .		0	ELECT READING		MEAN = 3 STD DEV =	1.0537960 2.7137521	
CES 1	(D)	001	001	PARM MIN MAX	=	1 = 001 PA -20. 20.	UA			0	DELTA DEPENDENT CODE 1	= 21	MEAN = 3 STD DEV =		
CES 1	(x)	001	001	PARM MIN MAX		1 = 001 PA			= 001	0	CALC #	= 22	MEAN = 3 STD DEV =	-19.265446 101.73367	
OVCES	) )	002	002	MIN MAX		800.	. •	1	<b>)</b> ,	0	ELECT READING		MEAN = 3 STD DEV =	940 • 5581 155 • 79972	
CES 2		003	003	MIN						0	ELECT READING		MEAN =		
				MAX	-	1.	V	I		0			3 STD DEV =	48.46556	
IFE 3		004	004	MIN		20.		/		1 0	ELECT READING		MEAN = 3 STD DEV =	26.435623 9.657045	
IFE 3 (	( <b>x</b> )	004	004		=	L = 004 PA	*		= 004	0	X DELTA CALC #	= 22	MEAN = 3 STD DEV =		

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EVICE	= SJ6708H	CONTR	OL # = DS5238 = 001				
100	and the second s	READO					
UNIT	ICES 1	ICES 1(D)	ICES 1(X)	BVCES	VCES 2	HFE 3	HFE 3(%)
000001	1.8785 UA	-651.5 NA	-25.75000 x	972.5 V	125.0 MV	27.0	-3.225800 %
000003	400.5 NA	-119.5 NA	-22.98000 %	905.0 V	126.5 MV	22.4	-7.0530C X
000004	751.0 NA	-17.6490 UA	-95.9100 %	903.5 V	132.0 MV	27.0	-2.527000 X
000007	896.0 NA	287.0 NA	47-1200 %	967.5 V	118.0 MV	29.9	-9.93900 ×
000008	2.695 UA	-625 • NA	-18.82500 X	943.5 V	175.0 MV	22.3	-4.29100 X
000009	2.970 UA	385 • NA	14.89300 %	879.5 V	134.5 MV	28.7	-6.51400 X
000011	4 . 795 UA	4.0820 UA	572.500 X*	875.5 V	155.5 MV	24.3	-3.95200 X
000012	834.5 NA	-557.0 NA	-40.0400 ×	1.0115 KV	158.0 MV	25.1	-9.38600 X
000013	1.9425 UA	-92.5 NA	-4.54500 X	921.5 V	145.0 MV	21.2	-14.85900 %
000014	1.1890 UA	739.0 NA	164.2200 **	926.5 V	113.5 MV	29.4	-7.54700 %
000016	378.5 NA	-160.0 NA	-29.71200 %	1.0135 KV	130-5 MV	27.9	-9-12000 X
000018	525.5 NA	-165.0 NA	-23.69500 %	959.0 V	116.0 MV	30.3	-6.48100 X
000019	414.5 NA	-182.0 NA	-30.51100 ×	1.0175 KV	123.5 MV	30.2	-3.82100 %
000020	1.8650 UA	554.5 NA	42.3200 %	927.5 V	122.0 MV 137.0 MV	27.8	-12.30200 X
000021R	474.5 NA	-78.5 NA	-14.19500 X	916.5 V	137.0 MV	19.95 *	-19.43500 X
000023	601-0 NA	-489.0 NA	-44.8600 X	919.5 V	133.5 MV	28.3	-c. 90700 x
000025	612.5 NA	-155.5 NA	-20.24700 X	1.0025 KV 998.5 V	139.5 MV	25.3	-16.50100 X
000026	914.0 NA	-152.0 NA -277.5 NA	-14.25800 X -34.6800 X	1.0075 KV	153.5 MV 126.0 MV	22.4 28.4	-14 -17600 X -6-97400 X
000033	522.5 NA 1.0870 UA	-3.0730 UA	-73.5700 X	906.5 V	158.0 MV	26.0	-1.886700 X
000034	1.5620 UA	-7.0 NA	-446.100 MX	911.5 V	141.0 MV	28.4	-5.64700 X
000035	1.5405 UA	1.0315 UA		907.5 V	139.0 MV	20.5	-15.91800 X
000035	304.5 NA	-154.0 NA	202.6500 X* -33.5800 X	946.5 V	139.5 MV	21.5	-10.04100 X
000040	521.5 NA	-205.0 NA	-28.23600 X	909.0 V	116.0 MV	30.5	-7.85400 %
000042	438.5 NA	-75.5 NA	-14.68500 %	933.5 V	135.0 MV	21.4	-10.46000 X
000046	478.5 NA	-35.0 NA	-6.82200 X	850.5 V	132.0 MV	23.4	-7.14200 X
000048	484.5 NA	-94.0 NA	-16.24800 X	\$81.5 V	130.0 MV	27.7	-8.88100 X
000049	1.4840 UA	210.0 NA	16.48300 X	914.5 V	150.0 MV	29.6	-2.631500 X
000050	734.5 NA	100.5 NA	15.85100 ×	903.0 V	135.0 MV	27.9	-6.06000 ×
000051	542.5 NA	61.5 NA	12.78500 X	940.5 V	126.0 MV	28.9	-5.24500 X
000052	594 .0 NA	196.5 NA	49.4300 %	967.5 V	115.5 MV	29.0	-11.85400 X
000053	525.0 NA	-853.0 NA	-61.9000 X	971.5 V	120.0 MV	26.6	-15.28600 X
000054	427.0 NA	-34.0 NA	-7.37500 ×	815.0 V	122.5 MV	21.5	-8.51000 X
000055	544.0 NA	-20.5 NA	-3.63400 ×	942.5 V	135.5 MV	21.6	-9.24300 X
000056	527.5 NA	-867.0 NA	-62.1900 %	971.5 V	113.5 MV	29.4	-14.03500 X
000060	383.5 NA	-645.5 NA	-62.7300 %	1.0055 KV	125.0 MV	27.8	-9.44600 X
000063	470.5 NA	-2.5445 UA	-84.5300 %	1.0235 KV	173.0 MV	24.4	-3.55700 X
000064	986.5 NA	-452.0 NA	-31-43200 X	969.5 V	120.0 MV	29.3	-8.72200 X
000065	2 . 660 · UA	-2.110 UA	-44.2300 %	879.5 V	168.5 MV	27.4	-3.52100 X
000066	429.0 NA	22.5 NA	5.54100 %	1.0305 KV	127.0 MV	28.0	-6.04000 X
000067	2.100 UA	595.0 NA	39.5300 %	816.0 V	111.5 MV	31.2	-7.41800 %
000063	1.4900 UA	1.0650 UA	250.5800 **	939. V	112.0 MV	29.8	-10.77800 X
000069	338.5 NA	-263.5 NA	-43.7700 %	939.5 V	139.0 MV	20.5	-14.93700 X

EVICE = SJ670	8H		CONTRO	oL # = 055238		SAMPLE SIZE = 43	
			LOT			# REJECTS = 0	
			READO	JT = 70		% REJECTED = .00	*
			PRIOR	= 20			
			TST C	APL = 12/21/	777		
ESCRIPTION =	NPN PL-99 8-6 SS GP 1000 HOUR	ERATION	LIFE TJ_	187.5 DEG C			
ARAMETER CONDIT	IONS PARM #	TEST #	LIM.	(TS	# FAILURES	REJECT CRITERIA	
ŒS 1	601	001			- 4		
		Î	AAX =	50. UA	8	ELECT READING	MEAN = 1.2116915 UA 3 STD DEV = 4.449415 UA
ŒS 1 (D)	001			001 PARM # 2	= 001	DELTA CALC # = 21	MEAN387 6310 MA
			MAX =	-20. UA 20. UA	ŏ	DEPENDENT CODE 1	MEAN = -357.6210 NA 3 STD DEV = 9.325350 UA
ŒS 1 (X)	001	001 F	PARM # 1 :	= 001 PARM # 2	= 001	CALC # = 22	,
Part Sales	* (L		= NIN = XAN	100. %	6	% DELTA DEPENDENT CODE 3	MEAN = -27.739166 % 3 STD DEV = 92.47485 %
IVCES	005	002	11N =	800. V	D 0	FLECT READING	MEAN = 943.6276 V 3 STD DEV = 171.52876 V
			MAXS =				
ICES 2	. 003	003	uln =		0	ELECT READING	MEAN = 131.96468 MV
		•	AX =	1. V	0		3 STD DEV = 48.92823 MV
IFE 3	004	004		1			
			MAX =	20. 60.	0	ELECT READING	MEAN = 26.644104 3 STO DEV = 9.898175
(FE 3 (Z)	004	004	APM # 1	= 004 PARM # 2	= 006	CALC # = 22.	
				-20. % 20. %	0 10	% DELTA	MEAN = -7.376805 % 3 STD DEV = 11.341157 %
		•	erio "				
	1.0		<u> </u>				

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DEVICE = SJ6708H		CONTRO LOT READOU	= 001		4			
UNIT	ICES 1	ICES 1(D)	ICES 1(%)	BVCES	VCES 2	HFE 3	HFE 3(X)	
000001	2.160 UA	-370 • NA	-14.500 X	970.0 V	122.0 MV	27.4	-1.7900 x	
000003	332.0 NA	-188.0 NA	-36.100 %	909.0 V	124.0 MV	23.1	-4.1400 X	
000004	1.0305 UA	-17.3695 UA	-94.300 x	890.5 V	126.5 MV	27.7	O. MK	
000007	621.0 NA	12.0 NA	1.9700 %	983.0 V	114.0 MV	30.8	-7.2200 X	
800000	2.500 UA	-820 . NA	-24.600 X	985.0 V	174.5 MV 135.0 MV	22.6	-3.0000 X	
000009	2-195 UA	-390 . NA	-15.000 X	898.5 V	135.0 MV	28.7	-6.5100 X	
000011	644.5 NA 829.0 NA	-68.5 NA -562.5 NA	-9.6000 x	893.5 V	156.5 MV	23.8	-5.9200 %	
000013	1.8450 UA	-190.0 NA	-40.400 X -9.3300 X	991.5 V 930.0 V	158.0 MV	25.0	-9.7400 X	
000014	1.4935 UA	1.0435 UA	231.00 %*	930.0 V 921.5 V	138.0 MV 112.5 MV	22.4 28.3	-10.000 X	
000016	335.0 NA	-203.5 NA	-37.700 X	1.0075 KV	126.5 MV	28.4	-7.4900 X	
000018	396.5 NA	-294.0 NA	-42.500 X	931.0 V	119.0 MV	30.5	-5.8600 X	
000019	333.0 NA	-263.5 NA	-44.100 %	1.0240 KV	120.0 MV	30.7	-2.2200 x	
000020	952.0 NA	-348.5 NA	-26.500 %	989.5 V	118.5 MV	27.5	-13.200 X	
000051	1.1330 UA	580.0 NA	104.05 X*	903.U V	134.5 MV 133.0 MV	20.4	-17.700 X	
000023	752.5 NA	-337.5 NA	-30.900 %	891.5 V	133.0 MV	28.2	-7.2300 X	
J00025	495.5 NA	-272.5 NA	-35.400 X	1.0490 KV	136.5 MV	27.0	-10.800 X	
000026	350.5 NA	-715.5 NA	-67.100 ×	1.0240 KV	148.5 MV	23.3	-10.700 X	
000030	490.0 NA	-310.6 NA	-38.700 %	1.0315 KV	123.0 MV	28.8	-7.6900 X	
000-34	997.5 NA 1.5200 UA	-3.1625 UA -49.0 NA	-75.000 % -3.1200 %	914. V	155.5 MV	26.3	-754.00 MX	
000035	5.500 UA	4.9910 UA	-3.1200 % 980.00 %*	925.5 V 938.5 V	140.0 MV 134.5 MV	28.4	-5.6400 %	
000038	237.0 NA	-221.5 NA	-48.300 %	959.0 V	134.5 MV	21.3	-13.000 X -7.9400 X	
000040	437.5 NA	-289.0 NA	-39.700 X	912.0 V	134.5 MV 115.5 MV	22.0 30.4	-7.9400 %	
000042	457.0 NA	-57.0 NA	-11.000 %	942.0 V	131.0 MV	21.4	-10.400 X	
000046	400.0 NA	-113.5 NA	-22.100 %	859.5 V	128.0 MV	23.5	-6.7400 X	
000048	432.0 NA	-140.5 NA	-25.300 X	987.5 V	128-5 MV	27.7	-8.8800 X	
000049	1.2690 UA	-5.0 NA	-392.00 M%	919.5 V	128.5 MV 149.5 MV	29.9	-1.0400 X	
000050	985.0 NA	351.0 NA	55.300 %	908.5 V	124.0 MV	28.4	-4.3700 X	
000051	445.5 NA	-35.5 NA	-7.3800 %	931.0 V	127.0 MV 112.5 MV	29.4	-3.6000 X	
000052	566.5 NA	169.0 NA	42.500 %	973.5 V	112.5 MV	29.6	-10.000 X	
000053	722.0 NA	-656.0 NA	-47.600 %	981.5 V	115.5 MY	28.7	-8.5900 X	
000054	291.5 NA	-169.5 NA	-36.700 X	807.5 V	125.5 MV	21.9	-6.8000 X	
000056	1.4615 UA 1.8290 UA	897.0 NA	158.00 X#	932.5 V	134.0 MV	21.6	-9-2409 X	
000060	365.5 NA	434.5 NA -663.5 NA	31.100 % -64.400 %	965.0 V 1.0105 KV	109.5 MV 122.0 MV	31.2	-8.7700 X	
000063	386.5 NA	-2.6285 UA	-87.100 X	1.0295 KV	173.5 MV	26.3	-7.8100 X	
000064	1.0085 UA	-430.0 NA	-29.800 X	988.5 V	118.5 MV.	29.6	-7.7800 X	
000065	2.480 UA	-2.290 UA	-48.000 X	882.5 V	169.0 MV	27.4	-3.5200 X	
000066	356-0 NA	-50.5 NA	-12.400 %	1.0065 KV	133.0 MV	28.4	-4.6900 X	
000067	1.0365 UA	-468-5 NA	-31.100 X	819.0 V	117.5 MV	31.7	-5.9300 X	
000068	1.3005 UA	875.5 NA	206.00 X*	915.5 V	114-5 MV	28.7	-14-000 X	
000059	8.720 UA	8.1180 UA	1.3400 KX#	643.5 V	141.0 MV	20.9	-13.200 X	

. . .

DEVICE = 5J6708H			c	ONTROL		055238			SAMPLE SIZE = 41		· Allered A.
				OT .	_	601			# REJECTS = 2		
				EADOUT		80			* REJECTED = 4.86 *		
				RIOR		20					
			海安學問題	ST CMP	0.5000000000000000000000000000000000000	03/10/	78				
DESCRIPTION =	NPN PL-99	784									The state of the s
	8-6 SS OF	PERATION	L1FE 4	TJ_16	7.5 DEC	, c					
PARAMETER CONDITIONS	PARM #	TEST #		LIMIT	s		# FAILU	URES	REJECT CRITERIA	- y	
IŒS I	001		MIN MAX	=	50.	UA		Ç	ELECT READING		1.0000676 UA
		A									
ICES 1 (D)	601		PARM		-20.		= 001	0	CALC # = 21	MEAN =	-614-1386 NA
			MAX		20.			0	DEPENDENT CODE 1		7.034503 W
ICES 1 (E)	001	001	PARM	# 1 =	001 PAR	M # 2	= 001		CALC # = 22	i	
			MIN		100.	×		0	EPENDENT CODE 3	MEAN = 3 STD DEV =	-22.981552 1 113.15354 1
BVCES	002	002								The state of the s	
			MIN		800.	<b>V</b>		0	ELECT READING	MEAN = 3 STD DEV #	943.9873 V 162.20993 V
VCES 2	003	603						24 T			
			MIN		1.	٧		ô	ELECT READING		133.48734 NV 49.16884 NV
HFE 3	004	004									
			MIN	-	20. 60.			0	ELECT READING	MEAN = 3 STD DEV =	26.314910 9.071491
HFE 3 (%)	004	0.04	PARM	<b>*</b> 1 =	004 PA	M # 2	= 0		CALC # = 22		
5.			MIN		20.	X		0	* DELTA	MEAN =	-9.630936 1 13.707444 1

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DEV I CE	= SJ6708H	CONTRO	L # = 0\$5238 = 001						
		READOU				8	2		
UNIT	ICES 1	ICES 1(D)	1CES 1(X)	BVCES	VCES 2	HFE 3	HFE 3(X		
000001	1.1895 UA	-1-3405 UA	-52.900 X	962.5 V	124.5 NV	26.2	-6.0900		
000003	347.0 NA	-173.0 NA	-33.200 X	901.5 V	130.0 MV	21.7	-9.9500		
000004R	4.095 UA	-14-305 UA	-77.700 X	795.5 V*	124.5 MV	28.7	3-6100		
000007	770.5 NA	161.5 NA	26.500 X	973.0 V	116.5 MV	29.2	-12-000		
000008	3.200 UA	-120 . NA	-3.6100 X	977.0 V	176.0 MV	22.2	-4.7200		
000009	1.6360 UA	-949.0 NA	-36.700 X	902.5 V	136.5 MV	28.3	-7-8100		
000011	2.515 UA	1.8020 UA	252.00 X*	895.5 V	157.5 NV	23.3	-7.9000		
000012	776.0 NA	-615.5 NA	-44.200 X	1.0350 KV	154.5 MV	26.1	-5.7700		
000014	865.0 NA	415.0 NA	92.200 x	931.5 V	111.5 MV	28.9	-9-1100		
000016	353.0 NA	-185.5 NA	-34.400 X	1.0055 KV	131.5 MV	27.4	-10-700		
000018	474.5 NA	-216.0 NA	-31.200 X	968.0 V	115.5 MV	28.8	-11-100		
000019	512.0 NA	-84.5 NA	-14.100 X	1.0195 KV	124.5 MV	29.8	-5.0900		
000020	1.5405 UA	230.0 NA	17.500 X	1.0080 KV	117.5 MV	29.1	-8.2000		
000023	557.5 NA	-532.5 NA	-48.800 X	925.5 V	132.5 MV	27.5	-9.5360		
000025	2.490 UA	1.7220 UA	224.00 X#	945.0 V	144.0 MV	24.8	-18-100		
000026	397.5 NA	-668.5 NA	-62.700 X	1.0195 KV	153-5 MV	22.1	-15.300		
000030	457.0 NA	-343.0 NA	-42-800 x	1.0075 KV	125.5 MV	27 .8	-10.800		
000033	1.1080 UA	-3.0520 UA	-73.300 X	911.5 V	157.5 NV	25.3	-4.5280		
000034	1.5385 UA	-30.5 NA	-1.9400 X	891.5 V	138.0 MV	29.2	-2.9900		
000035	1.1290 UA	620.0 NA	121.00 X*	887.0 V	141.0 MV	20.2	-17-500		
000038	453.0 NA	-5.5 NA	-1.1900 x	945.5 V	138.5 MV	21.1	-11-700		
000040	712.0 NA	-14.5 NA	-1.9900 ×	930.0 V	114.0 MV	30.2	-8.7600		
000042	640.0 NA	126.0 NA	24.500 X	935.5 V	136.0 MV	21.3	-10.630		
000046	461.0 NA	-52.5 NA	-10-200 X	860.0 V	129.5 MV	23.1	-6.3300		
000048	445.5 NA	-133.0 NA	-22.900 X	979.5 V	128.5 MV	27.4	-9-8600		
000049	1.6750 UA	401.0 NA	31.400 X	875.5 V	146.5 MV	29.1	-4-2700		
000050	574.5 NA	-59.5 NA	-9.3800 X	901.0 V	126.5 MV	27.4	-7.7400		
000051	525.5 NA	44.5 NA	9.2500 X	944.5 V	127.0 MV	28.3	-7-2100		
000052	602.0 NA	204.5 NA	51.400 X	941.5 V	116.5 MY	29.0	-11-600		
000053	690.0 NA	-688.0 NA	-49.900 X	959.0 V	120-5 MV	26.5	-15.600		
000054	421.5 NA	-39.5 NA	-8-5600 X	814.0 V	128.0 MV	20.4	-13-100		
000055	342.0 NA	-222.5 NA	-39.400 X	953.5 V	137.0 MV	21.1	-11-300		
000056	393.0 NA	-1.0015 UA	-71.800 X	955.0 V	117.5 MV	27.4	-19-800		
000060	362.0 NA	-657.0 NA	-64.800 X	999.5 V	128.0 MV	27.5	-10-400		
000063	453.5 NA	-2.5615 UA	-84.900 X	1.0225 KV	174.5 MV	24.2	-4.3400		
000064	626.0 NA	-812.5 NA	-56-400 X	981.0 V	120.0 NV	28.8	-10.200		
000065	2.445 UA	-2.325 UA	-48.700 X	890.5 V	168.0 MV	27.1	-4.5700		
000066	365.5 NA	-41.0 NA	-10,000 x	1.0240 KV	130.0 MV	27.2	-8.7200		
000067	1.0775 UA	-427.5 NA	-28.400 X	815.5 V	117.0 MV	29.9	-11-200		
000066	1.408 UA	983.0 NA	231.00 X*	937.5 V	113.5 NV	29.	-13-100		
000069R	379.0 NA	-223.0 NA	-37.000 X	927.5 V	143.5 MV	19.64 *	-18.500		

·QACS0505 MEASUREMENTS READOUT DETAIL DATE 03/10/78 PAGE = SJ6708H DEVICE CUNTROL # = 055238 LOT = 001 READOUT = 80 REJECT LIST 000004 000069

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MEASUREMENTS READOUT DETAIL DATE 03/10/78 . 0ACS0505 PAGE 4 CONTROL # = 055238 LOT = 001 READGUT = 80 DEVICE = SJ6706H REJECT LIST ELECTRICAL REJECTS UNIT PARAM PAGE PARAM PAGE PARAM PAGE PARAM PAGE PARAM PAGE PARAM PAGE 000004 RVCES 2: 000069 HFE 3 2

		TS COVER SI			DATE		PAGE			
DEAICE .	SJ6708H			CONTROL (	• =	055238		SAMPLE SIZE = 17		f.
				LOT		001		# REJECTS = 1	10	
				READOUT	-	81		* REJECTED = 5.88 *		
				PRIOR		NONE				
				TST CMPL	-	04/07/78				
DESCRIPTION	B-7	POWER CYCL CYCLES	ING							
PARAMETER C	ONDITIONS PA	RM # TEST	•	LIMITS		# FA	ILURES	REJECT CRITERIA		
ICES 1	00	1 001								
			MIN	=	50.	UA	0	ELECT READING	MEAN =	2.7644082 U
BUFFE	00	2 002								
BYCES		2 002	MIN		800.	٧	1 0	ELECT READING	MEAN = 3 STD DEV =	968.7187
100			FINA						3 310 024 2	144123443
VCES 2	00	3 003	MIN	=			0	ELECT READING	MEAN =	136.02918 M
	1		MAX	=	1.	V .	0		3 STD DEV =	53.38771 M
HFE 3	00	4 004			00					
4			MIN		60.		. 8	ELECT READING	MEAN = 3 STD DEV =	
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MEASUREMENTS READOUT DETAIL DATE 04/07/78 QAC50505 PAGE 3 CONTROL # = 055238 LOT = 001 READOUT = 81 = SJ6708H DEVICE REJECT LIST 000025

Q.CS0505 MEASUREMENTS READOUT DETAIL DATE 04/07/78 PAGE 4 CONTROL # = 055238 LOT = 001 READOUT = 81 DEVICE = SJ6708H REJECT LIST ELECTRICAL REJECTS UNIT PARAM PAGE PARAM PAGE PARAM PAGE PARAM PAGE PARAM PAGE 000025 BVCES 2

DEVICE = SJ67	08H			CONTROL	. =	DS 52 38		SAMPLE SIZE	= 16		
Berry Control				LOT		001		# REJECTS	= 0		
			3	READOUT PRIOR	=	82 NONE	Per Control	* REJECTED	= c00 X	<b>V</b>	
				TST CHP	_ =	05/15/78	u.	<b>₹</b> -	•		
DESCRIPTION =	NPN PL-9 B-7 POWE 2000 CYC	R CYCLI	NG	-	•			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
PARAMETER CONDIT	IONS PARM	TEST	•	LIMIT	5	# F	AILURES	REJECT CRITERIA			4
ICES 1	001	001	MIN	_ •		1	0	ELECT PEADING	3	MEAN	= 1.399370
			MAX	=	50•	YA .	۰	7 /		3 STD DEV	r = 7.063003 U
BVCES	002	002					1				-
THE RESIDENCE OF THE PARTY OF T			MIN		800-	<b>Y</b>	8	ELECT READING	<b>为是是一个人的</b>	MEAN 3 STD DEV	= 964.2187 = 152.00779
			MAX	•						. 3.0	As a state of the
VCES 2	003	003	MIN MAX		1.	•	8	ELECT READING		MEAN 3 STD DEN	= 136.59346 M

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DEVICE = S.	J 6708H	CONTROL LOT READOUT	= 0S5238 = 001 = 82				
0NIT  000001 00003 00007 00008 000009 000011 000012 000014 000016 000018 070019 000020 000020 000023 000023	1CES 1  1.6 UA  420. NA 440. NA 2.9 UA 2.1 UA 7. UA 960. NA 980. NA 350. NA 460. NA 350. NA 460. NA 360. NA 1.4 UA 820. NA 820. NA 1.6 UA	BVCES  962.5 V 912.5 V 993.5 V 981.0 V 918.5 V 917.5 V 1.0515 KV 931.5 V 1.0210 KV 1.0210 KV 1.0365 KV 910.5 V 1.0145 KV 912.0 V	VCES 2  125.5 MV  129.5 MV  119.0 MV  178.0 MV  134.5 MV  158.5 MV  118.5 MV  114.5 MV  125.5 MV  119.0 MV  131.5 MV  129.0 MV	HFE 3  26.5  22.1  29.4  27.0  27.5  23.6  26.3  29.1  27.5  29.0  29.3  28.7  27.5  21.9  27.9  25.1			
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			ME	CONTROL A	= OS52	38	SAMPLE SIZE =	16		
			State 12	LOT	= 001		# REJECTS =	0		
				READOUT PRIOR	= 83 = NONE	196.74 P. 1	% REJECTED =	•00 X	,	
				TST CMPL	= 06/1	6/78			· (*)	
	PN PL-99 3-7 POWER 3000 CYCL	CYCLI	NG							
PARAMETER CONDITIONS	PARM #	TEST		LIMITS	-1	# FAILURES	REJECT CRITERIA			
ICES 1	001	001	MIN MAX		50 • UA	0	ELECT READING		MEAN =	1.4893721 WA 4.875165 WA
BVCES	002	002	MIN	· =	800. V	0	ELECT READING			975.7500 V 287.73022 V
CES 2	003.	003	MIN	<u> </u>	1. V	0	ELECT READING			141.96848 MV 58.61491 MV
#FE 3	004	004	MIN		20 -	0	ELECT READING		MEAN =	26.274948 7.956882
	No. 200						A THE RESIDENT			

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DEVICE = SJ6708H				CONTROL #	= 055238		SAMPLE SIZE	= 16		
				LOT	= 001		# REJECTS	7	50x 550x 300	
				READOUT	= 34		* REJECTED	= 43.75 X		
		1044 NS 38		PRIOR	NONE					
				TST CMPL	= 07/18/7	8	la l			
	NPN PL-9 B-7 POWE 4000 CYC	R CYCLI	NG							
PARAMETER CONDITIONS	PARM #	TEST	•	LIMITS	CO	FAILURES	REJECT CRITER	I A		
ICES 1	001	001		. 4.		,				
		- 1	MIN		D. UA	0	ELECT READING		MEAN =	3.1587442 UA 21.475396 UA
		(						A Transfer		
BVCES	002	002	MIN		0. V	6	ELECT READING		MEAN =	947.1110 V 120.04216 V
									S SIO DEV -	12010-216
VCES 2	003	003	MIN			c 0	FLECT READING	ASSESSED FOR	MEAN =	136-74968 NV
	1982		MAX	= 1	l. V	Ō			3 STD DEV =	54.33976 MV
HFE 3	004	004	MIN	<b>新艺技术的</b>			ELECT READING		45.4	
			MAX		). 0.	0	ELECT READING	- And American	MEAN =	26.631210 6.130887
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DEVICE = S	J6708H	CONTROL LOT READOUT	# = 0\$5238 = 001 = 84			
UNIT 000001 000003 000007 000008 000009 000011R 000012R 000014R 000018R	10ES 1 1.5 UA 400. NA 800. NA 2.3 UA 1.2 UA 30. UA 770. NA 750. NA 370. NA 450. NA	968.0 V 916.0 V 985.5 V 981.5 V 930.5 V 645.0 V* 1.0115 KV	VCES 2 130.0 MY 129.0 MV 118.0 MV 178.5 MV 136.5 MV 156.0 MV 157.5 MV 114.5 MV 134.5 MV	HFE 3 26.3 22.1 29.4 21.9 28.3 23.9 26.2 29.0 27.6	6	
000019R 000020R 000023 000025 000030R 000033	390. NA 1.2 UA 530. NA 8.0 UA 380. NA 1.5 UA	0. MV* 0. MV* 939.5 V 878.5 V 0. MV* 913.0 V	123.5 MV 119.0 MV 130.5 MV 155.5 MV 127.0 MV 158.5 MV	29.2 29.9 28.6 27.7 21.9 28.6 25.5		
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QACS 0505 MEASUREMENTS READOUT DETAIL DATE 07/18/78 PAGE 3 CONTROL # = 055238 LOT = 001 READOUT = 84 DEVICE = SJ6708H REJECT LIST 000011 000012 000014 000018 000019 000020 000030

GACSOSOS MEASUREMENTS READOUT DETAIL DATE 07/18/78 PAGE 4 CONTROL # = 055238 LOT = 001 READOUT = 84 DEVICE = SJ6708H REJECT LIST ELECTRICAL REJECTS PARAM PAGE PARAM PAGE PARAM PAGE PARAM PAGE UNIT PARAM PAGE PARAM PAGE 000011 BVCES 000012 BVCES 000014 BVCES 000018 BVCES 000019 BVCES 000020 BVCES 000030 BVCES

DEVICE = SJ6708H			CONTROL	# = 055238		SAMPLE SIZE = 17	
				= 001		# REJECTS = 0	
			READOUT	CHACLE SHOW TO SEE		x REJECTED = .00 x	
			PRIOR	= NONE			
			TST CMPL	= 03/27/	78		
8	PN PL-99.78 -7 POWER CY 5 CYCLES	CLE THE	MAL SHOCK	<b>k</b>			
PARAMETER CONDITIONS	PARM # TI	EST #	LIMITS		# FAILURES	RE JE CY CRITERIA	
ICES 1	001 00	21					
		MIN		50. UA	. 0	ELECT READING	MEAN = 650.4112 3 STD DEV = 1.0317507
HVCES	002 00	MIN MAX	Ē	800 • V	00	ELECT READING	MEAN = 939.0000 3 STD DEV = 152.33679
CES 2	003 00	MIN	Ē	1. V	0 1	ELECT READING	MEAN = 130.58793 3 STD DEV = 41.02011
IFE 3	004 00	04					
		MIM XAM		20. 60.	0	ELECY READING	MEAN = 26.417587 3 STD DEV = 10.810658
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QAC50805	MEASUREMENTS	READOUT DETAIL	DATE 03/26/76	PAGE
DEVICE	= SJ6708H	CONTROL #	= 085238 = 001 = 65	
UNIT	ICES 1	BVCES	VCES 2	HFE
000034	1.5245 UA	893.5 V	137.5 MV	30.
000035	401.0 NA	891.5 V	138-0 MV	20.
000138	465.0 NA	964.5 V	135.5 MV	22.
0.00040	762.0 NA	934 • 5 V	114.0 MV	
000042	573.5 NA	937.0 V	131.5 MV	31.
001046	516.0 NA	864.5 V	129.5 MV	21.
000048	480.5 NA	983.5 V	128.0 MV	23.
000049	1.6055 UA	880.5 V	148.0 MV	20.
000000	489.0 NA	927.5 V	125.5 MV	29.
000051	614.5 NA	958 • 5 V	124.5 MV	28.
000052	589.0 NA	960.0 V	114.0 MV	29.
000053	530.0 NA	984.5 V	119.0 MV	30.
000054	400.5 NA	827.03 V	125.5 MV	27.
000055	405.5 NA	957.0 V	134.0 MV	21.
000056	521.0 NA	959.5 V	117.5 MV	21.
000060	491.5 NA	1.0035 KV	125.5 MV	28.
000063	504.0 NA	1,0295 KV	172.5 MV	25. 25.

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LOT = 001	EVICE =	SJ6708H				CONTROL	· = 0552	38	SAMPLE SI	ZE =	17		
PRIOR = NONE TST-CAPT = 04/05/78  ESCRIPTION = Non PL-99-714 B-7 FORE CYCLE THERHAL SHOCK 75 CYCLES  RAMETER CONDITIONS PARM # TEST # LIMITS # FAILURES NEJECT CRITERIA  ES 1 001 001 MIN = 00. UA 0 REAN = 536.9703 MIN = 000. V 0 ELECT READING MEAN = 938-7351 MAX = 000. V 0 ELECT READING MEAN = 151.49012  ES 2 003 603 MIN = 1. V 0 FLECT READING MEAN = 100.67628 MAX = 1. V 0 FLECT READING MEAN = 100.67628 MAX = 00 PARM = 10.667628 MAX = 00 PARM = 10.667628 MAX = 00 PARM = 10.667628 MAX = 00 PARM = 25.052006 MA						LOT	= 001		e REJECTS				
TEXT LEMPL = 04/05/76    SCRIPTION =   NPN PL-99-7184   THERMAL SHOCK   TS CYCLE YCLE   THE PLANT					READOUT	= 86		* REJECTE	D =	-00 x			
### PL-99-774						PRICE	= NONE		1				
## PAPER CYCLE THERMAL SHOCK TEC CYCLES OF LIMITS						TST CHPL	= 64/05	5/78				图 共产基件的	
ARAHETER CONDITIONS PARM TEST & LIMITS	ESCRIPTION		8-7 POWER	CYCLE	THER	MAL SHOC	K			•			O
MIN = 50. UA 0 ELECT READING MEAN = 53.0.701  MAX = 50. UA 0 ELECT READING MEAN = 938.735  MAX = 800. V 0 ELECT READING 3 STD DEV = 10.648.7951  MEAN = 938.7351  MEAN = 13.0.67620  MEAN = 13.0.67620  MEAN = 13.0.67620  MEAN = 13.0.67620  MEAN = 10.0.67620  MEAN = 25.952906  MEAN = 53.51D DEV = 10.3347897	ARAMETER -C					LIMITS		# FAILURE	S REJECT CRI	TERIA			
MIN = 50. UA 0 ELECT READING MEAN = 53.0.701  MAX = 50. UA 0 ELECT READING MEAN = 938.735  MAX = 800. V 0 ELECT READING 3 STD DEV = 10.648.7951  MEAN = 938.7351  MEAN = 13.0.67620  MEAN = 13.0.67620  MEAN = 13.0.67620  MEAN = 13.0.67620  MEAN = 10.0.67620  MEAN = 25.952906  MEAN = 53.51D DEV = 10.3347897									<b>第二条的条件</b>				
MEAN = 000. V 0 ELECT READING MEAN = 938.7351  MEAN = 1. V 0 ELECT READING MEAN = 130.67620  MEAN = 1. V 0 ELECT READING MEAN = 20.60827  MAX = 004 004 MIN = 20. 0 ELECT READING MEAN = 25.952896  MAX = 60. 0 ELECT READING MEAN = 25.952896  MA	25 1		401	001			50 - 114	. 0	ELECT READ	ING		MEAN = 536.970	I MA
MAX = 800. V 0 ELECT READING MEAN = 9.58.79512  MIN = 1. V 0 ELECT READING MEAN = 130.67522  MIN = 1. V 0 ELECT READING MEAN = 130.67522  FE 3 004 004 MIN = 20. 0 FLECT READING MEAN = 25.952886  MAX = 60. 0 FLECT READING MEAN = 25.952886  MAX = 60. 0 FLECT READING MEAN = 25.952886  OR DEV = 10.347892													
CES 2  WAX = 1. V 0 ELECT READING  MEAN = 130.67620  TE 3  WAX = 20. 0 FLECT READING  MEAN = 25.052000  MEAN = 25.052000  MEAN = 10.347007	VCES	019081. VIS		200	MIN	= 111111	800. V		ELECT READ	1 NG		MEAN = 938.735	51 V
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000034 000435	1.3570 UA 429.0 NA	894.5 V 895.5 V	135.5 MV 137.5 MV	29 • 3 20 • 6		
000038 000040 000042	373.5 NA 514.5 NA 439.5 NA	964.5 V 930.0 V 936.5 V	137.5 MV 114.5 MV 134.0 MV	21.6 30.3		
000046	418.0 NA 353.0 NA	863.0 V 985.5 V	127.0 MV 128.0 MV	21.5 23.6 27.9		
000049	1.6210 UA 442.5 NA	882.5 V	145.5 MV 124.6 MV	29.4 27.9		
000051 000052 000053	432.0 NA 527.0 NA 420.0 NA	955.5 V 967.5 V 982.6 V	124.5 MV 115.0 MV 121.5 MV	28.7 30.2 27.0		
000054	315.0 NA 392.0 NA	829.5 V	126.0 MV 134.0 MV	20.7		
000056 000060 000063	345.0 NA 328.0 NA 421.5 NA	958.0 V 1.0025 KV	118.0 MV 125.0 MV	27.9 28.6		
Uddada	-2163 NA	1.0270 KV	174-0 MV	24.6		
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EVICE = SJ6708H				CONTROL	· = 0552	38	SAMPLE SIZE	_	17		
	3			LOT	= 001		# REJECTS	-	0		
				READOUT	= 87		* REJECTED	-	.00 %		
				PRIOR	= NONE						
				TST CMPL	= 04/1	2/78					
	IPN PL-99 I-7 POWER 75 CYCLE	CYCLE	THER	MAL SHOO	ck						
PARAMETER CONDITIONS	PARM #	TEST	•	LIMIT	5	# FAILURES	REJECT CRITER	IA			
CES 1	001	001	MIN	$\sim$		0	ELECT READING			ME AN =	517.9405 bd
	10		MIN	<b> </b> ≡	50. UA	ŏ	ELLC: READING			3 STD DEV =	517.9406 NA 1.0895319 UA
BVCES	002	005	MIN		800. V		FLECT CEADING				
			MAX		800.	0	ELECT READING			3 STD DEV =	938.0881 163.25038
CES 2	003	003			,						
		1	MIN	=	1. V	Ĉ	FLECT READING			3 STD DEV =	130.97023 MV 38.59139 MV
FE 3	004	004									
			MIN		20. 60.	0	ELECT READING			MEAN =	25.776397 10.423547
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DEVICE	= SJ6706H	CONTROL LOT READOUT	= 085238 = 001 = 83		
UNIT	ICES 1	BVCES	VCES 2	HFE 3	
000001 000003 000007 000008 000009 000011 000012 000014 000016	1.5 UA 420. NA 430. NA 2.4 UA 1.5 UA 5. UA 800. NA 800. NA 320. NA	960. V 904.5 V 1.000 KV 980.0 V 930.5 V 917.0 V 1.300 KV 910. V 1.0075 KV 944.6 V	138.0 MV 132.0 MV 120.0 MV 187.0 MV 136.0 MV 158.0 MV 166.0 MV 123.0 MV 134.5 MV	26 • 1 21 • 6 29 • 4 21 • 7 27 • 9 23 • 4 25 • 9 28 • 8 27 • 3 28 • 6	
000019	350. NA 1.4 UA	1.020 KV	134.5 MV 120.0 MV	28 • 9 28 • 4	
000023 000026 000030 000033	500 NA 50 UA 420 NA 1.3 UA	905.5 V 879.5 V 1.0195 KV 912.0 V	142.5 MV 157.0 MV 137.0 MV 169.5 MV	27.5 21.9 27.9 25.1	
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	MENTS COVER SPEE	T DATE 04/27/78	PAGE	
DEVICE = SJ6708H		CONTROL # = 055233		SAMPLE SIZE = 17
		LC3 = 001		# REJECTS = 0
•		READCUT = 88		* REJECTED = .00 *
		PRICE = NCNE		
		TST CNFL = 04/26/78		
E	NPN PL-99.784 B-7 POWER CYCLE 1 300 CYCLES	HERMAL SHOCK		
FARAMETER CONDITIONS	PARM & TEST &	LIVITS # FAIL	LURES	REJECT CRITERIA
TCES 1	001 001	IN =	9.0	ELECT READING MEAN = 803.8231 NA 3 STD DEV = 1.9261624 UA
EVCES		IN = 800. V	0 C	ELECT READING MEAN = 942-2646 V 3 STD DEV = 156-58483 V
VCES 2	003 003			
		IN = AX = 1. V	0	ELECT READING MEAN = 130.82319 MV 3 STD DEV = 40.80089 MV
HFE 3	004 004	IN = 20.	Ĉ	ELECT READING MEAN = 26.235229 3 STD DEV = 10.475486
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AC\$0505	MEASUREMENTS REA	IDCUT DETAIL	DATE 04/27/78	PAGE 2			
EVICE =	SJ67CEH	CENTRE	. = CS5238	A STATE OF THE STA			
		FEACCL"	= 001 = 66				
UNIT	ICES 1	EVCES	VCES 2	FFE 3	Bridge Co. See S.		
000034	2.1 UA	902.5 V	137.0 MV	30.0			
000035	52C. NA 350. NA		137.0 MV 139.5 MV 127.0 MV	20.9 22.0			
000040	620. NA 430. NA 475. NA	\$28-5 V \$43-5 V 865-0 V 1-0065 KV \$79-5 V \$16-0 V \$57-0 V	127.0 MV 113.5 MV 123.5 MV 128.0 NV 127.5 MV 145.5 MV 125.5 MV 120.5 MV 120.5 MV 126.0 MV 126.0 MV	30.9 21.9 24.0			
000046		1.0065 KV	128.0 NV 127.5 NV	24.0			
000049	2.3 UA 560. NA 575. NA 1.6 UA	879.5 V 916.0 V	145.5 NV	29.5 28.0			h
000051	575. NA	957.0 V	124.5 MV	26.9 25.8			
000053	380. NA	\$65.5 V 831.5 V 957.5 V	120.5 NV	28.4 29.5 28.0 26.9 27.2 27.2			
000055	320. NA	955-5 V	126.5 MV	Bleak, GBA14, NCS, NORS, USE AND AND A STORY AND	AND THE REAL PROPERTY.		
000060	350. NA 480. NA	1.0055 KV	125.5 MV 172.5 MV	28.8 25.0			
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DEVICE = SJ	5 <b>7</b> 08H			CONTRO	L# =	055238		SAMPLE SIZE	=	17		
				LOT	_	001		# REJECTS	=	0		
				READOL	т =	89		* REJECTED	=	.00 ×		
				PRIOR	_	NONE						Constitution of the Maria
				TST C	IPL =	05/15/78	3					
DESCRIPTION =	NPN PL-99 B-7 POWER 500 CYCLES	CYCLE	THE	RMAL SI								
PARAMETER CONDI	ITIONS PARM #	TEST	•	LIM	TS		FAILURES	REJECT CRITERIA				
ICES 1	001	001	MIN		50 .	UA	0	ELECT READING				761.7642 NA 2.0449988 UA
BYCES	002	002	MIN XAM		800.	v	8	ELECT READING			MEAN = 3 STD DEV =	941.2058 V 154.28503 V
Ψ												
VCES 2	003	003	MIN	=	1.	•	8	ELECT READING			MEAN = 3 STD DEV =	130.08791 MV 39.11777 MV
HFE 3	004	004	MIN		20 <b>.</b> 60 <b>.</b>		0	ELECT READING			MEAN = 3 STD DEV =	
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EVICE = 1	H8076La	CONTROL LOT READOUT	= 055236 = 001 = 89				
UNIT 000034 000035 000038 000040 000042 000046 000048	1 CES 1 2.5 UA 480. NA 350. NA 570. NA 400. NA 1.16 UA	899.5 V 907.5 V 968.5 V 925.0 V 941.5 V 863.0 V	VCES 2 137.5 MV 137.0 MV 136.0 MV 116.0 MV 131.0 MV 127.0 MV 126.5 MV	HFE 3 29.5 21.1 21.7 30.4 21.7 23.5 27.9			
000049 000050 000051 000052 000053 000054 000055 000056 000060 000060	2.5 UA 540. NA 510. NA 1.20 UA 430. NA 350. NA 340. NA 390. NA 330. NA	881.5 V 917.0 V 957.0 V 972.5 V 985.0 V 831.5 V 957.0 V 959.3 V 1.0075 KV 1.0235 KV	145.0 MV 124.0 MV 123.5 MV 115.5 MV 119.0 MV 125.5 MV 134.5 MV 118.0 MV 124.5 MV	29.7 28.9 28.9 30.0 27.2 21.0 21.5 28.1 28.1 24.9			44 14 1
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DEVICE - STOROSH											
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	1-7 POWER	N CYCLE	BLE F	MAL SHOC REQUENCY							
PARAMETER CONDITIONS	PARM #	TEST	•	LIMITS		AILURES	REJECT CRITERI	(A			
ICES 1	001	001	MIN				ELECT READING				
			MAX		50. UA	Ö	ELECT READING				1.0841140 UA 5.732714 UA
BVCES	002	002	MIN		800. V	0	ELECT READING			NEAN =	826.8823 V
			MAX	-		0				3 STD DEV =	66.01277 V
VCES 2	003	003					FI FCT DEADYNG		10000000		
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UNIT ICES 1 BVCES VCES 2 HFE 3  000071 460. NA 851.5 V 116.0 MV 30.9  000072 426. NA 827.5 V 140.5 MV 25.9  000073 380. NA 847.5 V 135.5 MV 27.7  000075 340. NA 875.0 V 116.0 MV 29.8  000080 420. NA 876.0 V 117.5 MV 29.6  000080 420. NA 815.5 V 122.5 MV 27.3  000092 410. NA 815.5 V 122.5 MV 27.3  000095 5.2 UA 847.5 V 133.0 MV 23.7  00015. 3.4 UA 812.0 V 16.0 MV 29.8  000108. 460. NA 815.5 V 122.5 MV 27.3  000108. 460. NA 815.5 V 122.5 MV 27.3  000113 640. NA 810.5 V 126.0 MV 26.6  000113 640. NA 810.5 V 131.5 MV 28.1  000115 320. NA 815.5 V 126.0 MV 26.0  00116 320. NA 815.5 V 126.0 MV 26.0  00117 550. NA 815.5 V 131.5 MV 28.1  000117 550. NA 815.5 V 130.5 MV 26.9  000118 560. NA 815.5 V 130.5 MV 26.9  000119 560. NA 815.5 V 130.5 MV 26.9  000115 560. NA 815.5 V 130.5 MV 26.9  000123 650. NA 815.5 V 132.5 MV 22.9  000123 650. NA 815.5 V 132.5 MV 22.9  000123 650. NA 815.5 V 132.5 MV 22.9	
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